

## AMWTP Waste Stream Designations

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Advanced Mixed Waste Treatment Project

*(Signature on file—see DCR-6155.)*

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Enrique Torres  
TRU Programs Manager

07/17/07

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Date

Next Periodic Review: 03/2009

**Advanced Mixed Waste Treatment Project  
AMWTP Waste Stream Designations**

**REVISION LOG**

<b>Revision Number</b>	<b>Date Approved</b>	<b>Pages Affected</b>	<b>Description of Revision</b>
0	08/27/03	All	DCR-2378-1. Create RPT-12 from EDF-199
1	11/20/03	Various	DCR-2528. Update TRUCONs, add newly created IDC 512 and applicable data, add EPA HWN F003.
2	03/07/05	All	DCR-4022. Revise paragraph following flowchart; edit for clarification.
3	07/12/05	All	DCR-4229. Incorporate IDC information to be consistent with RPT-TRUW-05, Waste Matrix Code Reference Manual.
4	09/13/05	Table 1, Figure 1	DCR-4477. Update Table 1 and Figure 1 to be consistent with RPT-TRUW-05.
5	11/30/05	All	DCR-4666. Incorporate information concerning PCB items shippable to WIPP, characterization data for approved WSPFs, and identification of new waste streams.
6	03/06/06	All	DCR-4822. Incorporate new approved profile, CCP waste streams, retrieval, and to address newly generated waste.
7	07/11/06	All	DCR-4874. Reflect a streamlined approach to using certain project scoping documents (RPTs 05, 06, 07 and 12).
8	08/15/06	Various	DCR-5224. Document recent PCB contamination incidents.
9	07/17/07	All	DCR-6155. Incorporate revision log; annual update to reflect current operations prior to audit.

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**ACRONYMS**

ACL	Analytical Chemistry Laboratory
AK	acceptable knowledge
AKE	Acceptable Knowledge Expert
AMWTF	Advanced Mixed Waste Treatment Facility
AMWTP	Advanced Mixed Waste Treatment Project
BC	Battelle Columbus
BIR-ID	Baseline Inventory Report-Identification
BL	Bettis Laboratories
BN	BNFL Inc.
B&W	Babcock & Wilcox
BWD	Hanford B&W Debris
CAS	Chemical Abstract Service
CBFO	Carlsbad Field Office
CCP	Central Characterization Project
CFR	Code of Federal Regulations
CH	contact-handled
CH-TRUCON	CH-TRU Waste Content Codes
DOE	United States Department of Energy
EDF	engineering design file
EPA	Environmental Protection Agency
FFC Act	Federal Facilities Compliance Act
FMF	Fuel Manufacturing Facility
GEN	generator
HFEF	Hot Fuel Examination Facility
HSG	headspace gas
HWN	hazardous waste number
IDC	item description code
INL	Idaho National Laboratory
LLW	low-level waste
LSA	low specific activity
MCP	management control procedure
MD	Mound Laboratories
MLLW	mixed low-level waste
MTRU	mixed transuranic

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NMAC	New Mexico Administrative Code
PCB	polychlorinated biphenyl
PK	process knowledge
PFP	plutonium finishing plant
PFPD	Hanford PFP Debris
PPE	personnel protective equipment
PPM	parts per million
PUREX	Plutonium uranium extraction
PUREXD	Hanford PUREX Plant Debris
RCRA	Resource Conservation and Recovery Act
RF	Rocky Flats Plant
ROW	radioactive only waste
RTL	regulatory threshold limit
RTR	real-time radiography
RWMC	Radioactive Waste Management Complex
SCD	Hanford Site Complex Debris
SS	solid sample
SS and C	sand, slag, and crucible
SVOC	semi-volatile organic compound
TBD	to be determined
TCLP	toxicity characteristic leaching procedure
TCO	Transportation Certification Official
TRIPS	Transuranic Reporting, Inventory and Processing System
TRU	transuranic
TSA	Transuranic Storage Area
TSCA	Toxic Substances Control Act
TWBIR	Transuranic Waste Baseline Inventory Report
UN	unknown
UNK	unknown
VE	visual examination
VOC	volatile organic compound
WAC	Waste Acceptance Criteria
WAP	Waste Analysis Plan
WETP	WIPP Experimental Test Program
WG	waste generator
WIPP	Waste Isolation Pilot Plant
WMC	waste matrix code
WSPF	waste stream profile form
WS#	waste stream identification number

# **Advanced Mixed Waste Treatment Project**

## **AMWTP Waste Stream Designations**

### **1.0 INTRODUCTION**

The United States Department of Energy (DOE) contracted to construct and operate the Advanced Mixed Waste Treatment Project (AMWTP). The AMWTP will retrieve, characterize, and package an estimated 65,000 cubic meters of transuranic (TRU) waste for disposal at the Waste Isolation Pilot Plant (WIPP). This waste was originally generated at the following DOE facilities: Rocky Flats Plant (RF), Mound Laboratories (MD), Bettis Laboratories (BL), and Battelle Columbus (BC). In addition, the AMWTP processes will generate waste during processing/repackaging of TRU waste, which may be disposed of at the WIPP. The newly generated waste is assigned a BN (The acronym BN stood for BNFL Inc., the original operations contractor at AMWTP. It now simply indicates newly generated AMWTP waste). Off-site and non-AMWTP waste may be processed either as supercompaction feedstock or as direct ship profiles.

TRU waste destined for disposal at WIPP is characterized on a waste stream basis as described by the WIPP Waste Analysis Plan (WAP).<sup>(75)</sup> A waste stream is defined in the WAP as waste material generated from a single process or activity that is similar in material, physical form, and hazardous constituents. The Carlsbad Field Office (CBFO) has further defined expectations concerning waste stream designations in WIPP Permit clarification CAO-00-016. All of the wastes under the scope of the AMWTP for shipment to WIPP (RF, MD, BC, BL, and BN) were generated by processes associated with the national nuclear weapons program and are currently stored at the Idaho National Laboratory (INL).

This report summarizes the results of AK documentation reviews and determinations as well as AMWTP characterization results in order to:

- Assign wastes to one of three summary categories (S3000 Homogeneous Solids, S4000 Soil/Gravel; and S5000 Debris Wastes)
- Assign wastes to appropriate waste matrix code (WMC) groups
- Delineate wastes into TRU waste streams for characterization
- Identify the chemical constituents in each waste
- Assign Environmental Protection Agency (EPA) hazardous waste numbers (HWNs).

In addition to compiling and reviewing AK information, any AMWTP processing sorting, segregating, and packaging of waste was also taken into consideration for purposes of waste stream identification/delineation, identification of chemical constituents and assignment of hazardous waste numbers. The document is subject to change as new data is obtained. Figure 1, Document Hierarchy and Information Flow for AK, is a flowchart outlining the general tracking and summarization of AK documents into the AK record. The delineation of waste streams as described in this report is used to determine the characterization to be used in certification of the waste. Three waste stream delineation schemes are described in this report and include Homogeneous Solids (S3000), Soils/Gravel (S4000), and Debris Wastes (S5000).

## ***Advanced Mixed Waste Treatment Project*** **AMWTP Waste Stream Designations**

This report will be revised as necessary to reflect finalized HWNs and changes to waste stream designations based on current characterization or when additional AK/process knowledge is obtained.

The following sections of this report define the AMWTP waste streams. The sections are organized by summary category groups, with additional sections (7.0 through 8.0) that define the AMWTP newly generated waste.

- Section 4.0, Homogeneous Solid Waste
- Section 4.1, Solid Wastes with Previously Approved Waste Stream Profiles
- Section 4.2, Solid Wastes not Previously Characterized
- Section 5.0, Soil/Gravel Waste
- Section 6.0, Debris Waste
- Section 6.1, Debris Wastes with Previously Approved Waste Stream Profiles
- Section 6.2, Direct Ship Debris Wastes not Previously Characterized
- Section 7.0, AMWTP Newly Generated Waste Stream
- Section 7.1, Supercompacted Waste
- Section 7.2, Retrieval Wastes Repackaged (Newly Generated)
- Section 8.0, AMWTP Facility Generated Waste (Derived Waste)

# Advanced Mixed Waste Treatment Project AMWTP Waste Stream Designations

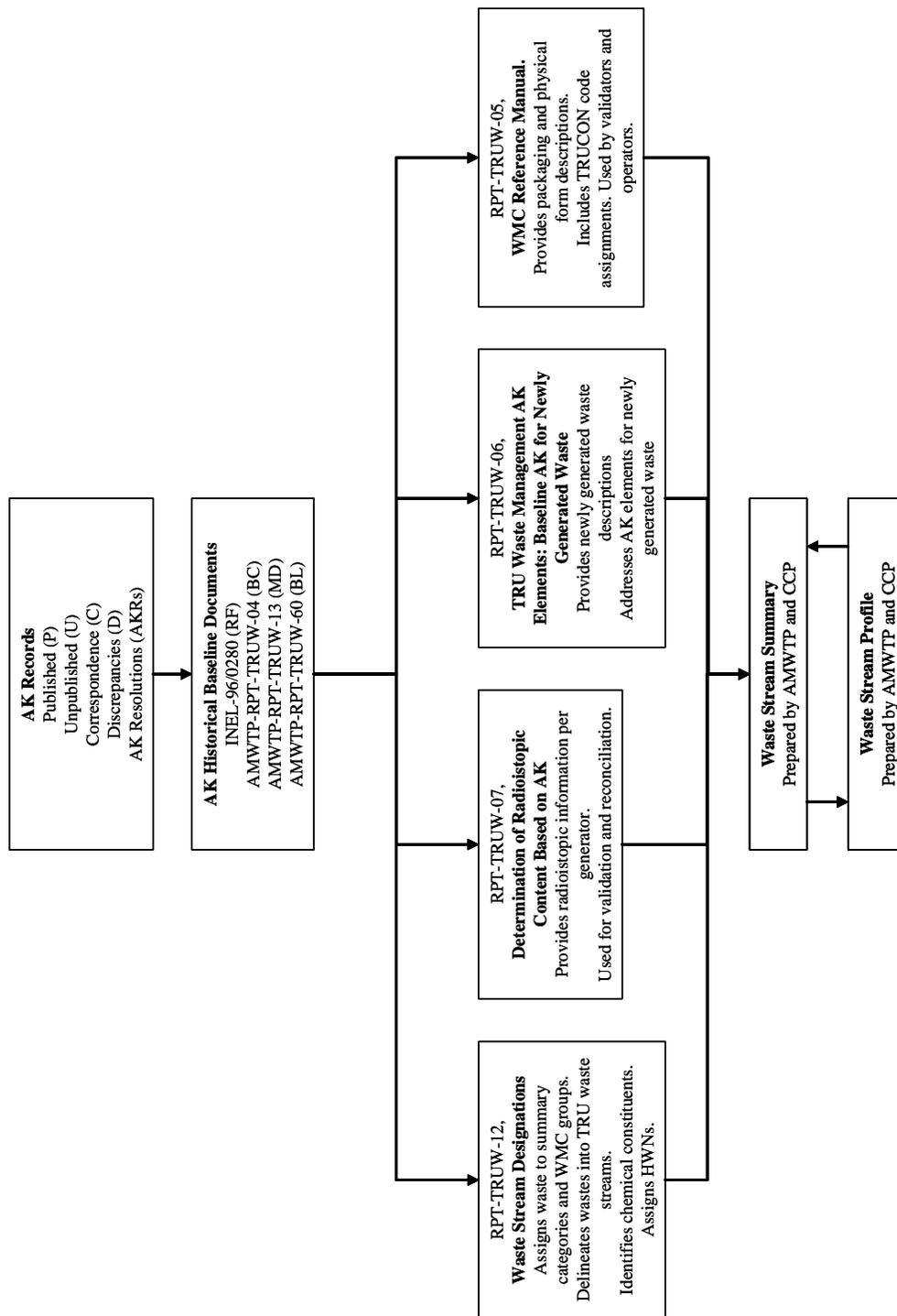


Figure 1. Document Hierarchy and Information Flow for AK.

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S3000 – Homogeneous Solids

Homogeneous solids are defined as solids materials, excluding soil, that do not meet the New Mexico Environment Department criteria for classification as debris (as noted below). Included in the series of homogeneous solids are inorganic process residues, inorganic sludges, salt waste, and pyrochemical salt waste. Other waste streams are included in this Summary Category Group based on the specific waste stream types and final waste form. This Summary Category Group is expected to contain toxic metals and spent solvents. This category includes wastes that are at least 50% by volume homogeneous residues.

S4000 – Soils/Gravel

This Summary Category Group includes S4000 waste streams that are at least 50% by volume soil/gravel. This Summary Category Group is expected to contain toxic metals. Soils/gravel is further categorized by the amount of debris included in the matrix.

S5000 – Debris Wastes

This Summary Category Group includes heterogeneous waste that is at least 50% by volume materials that meet the WIPP criteria for debris. WIPP criteria for debris include:

1. a manufactured object, or
2. plant or animal matter, or
3. natural geologic material.
4. WIPP-approved particles smaller than 2.36 inches in size that is also a manufactured object and that are not a particle of S3000 or S4000 material.

If a waste does not include at least 50% of any given summary category by volume, characterization shall be performed using the waste characterization process required for the summary category constituting the greatest volume of waste for that waste stream.

LLW and MLLW are not subject to the above WIPP debris definition. IDCs associated with LLW and MLLWs must comply with the current RCRA definition for debris as noted within 40 CFR 268.2.

Appendix A contains a list of wastes by item description codes (IDCs) and WMCs which will be encountered during retrieval operations at AMWTP but which are not within the current scope of AMWTP processing for WIPP disposal. The list includes waste:

1. That does not currently have a defense waste determination, waste which is remotely handled, and
2. Waste that may contain classified materials.

## ***Advanced Mixed Waste Treatment Project*** **AMWTP Waste Stream Designations**

These wastes are characterized, managed, and stored by AMWTP in accordance with the AMWTP contract and state of Idaho permit requirements. These IDCs are not grouped into waste streams because they will not be characterized for disposal at the WIPP under the current contract.

The information and Table presented in Appendix B provide information about chemical constituents of wastes currently stored in the Radioactive Waste Management Complex (RWMC) and the Transuranic Storage Area (TSA) accessible and retrievable storage areas. The data is compiled from one or more of the following sources:

1. EDF-RWMC-803,
2. Chemical Constituents in Transuranic Storage Area (TSA) Waste, <sup>(30)</sup>
3. AK source documents,
4. Characterization results.

### Low-level and Mixed low-level wastes

Low-level and MLLW waste is characterized at the generator level as described by the AMWTP LLW/MLLW program requirements.

## **2.0 ASSIGNMENT OF SUMMARY CATEGORY GROUPS, WASTE MATRIX CODES, AND WASTE MATRIX CODE GROUPS**

Each TRU waste stream consists of one or more wastes initially identified by the generating facility's site-specific IDCs. The IDC is a specific numerical code applied to each waste stream by the generating facility to identify the waste. With the exception of the temporary IDC identified as undetermined (i.e., UN 000), each IDC is assigned an appropriate WMC. WMCs were developed by DOE in response to the Federal Facilities Compliance Act (FFC Act) <sup>(78)</sup> as a method to aid in categorizing DOE TRU mixed waste streams into a series of five-character alphanumeric codes and descriptors (e.g., S3121; Homogeneous Solids, Wastewater Treatment Sludges) that represent different physical/chemical matrices. <sup>(76)</sup> The first position is a letter that denotes the physical form of the waste (L for liquid, S for solid, etc.). The next position denotes whether the waste is homogeneous, soil, or debris (S3000 is homogeneous solids waste, S4000 is soil/gravel, and S5000 is debris waste), and the last three positions denote more specific categories [e.g., specific type of homogeneous solids (sludge, salt etc.), soil/gravel, or debris (plastic, light metal etc.)]. Similar WMCs reside in super-tier groups, designated as WMC Groups. WMC groups (i.e., solidified inorganics, solidified organics, salt waste, soils, lead/cadmium metal, inorganic nonmetal waste, combustible waste, graphite, filters, heterogeneous debris waste, and uncategorized metal), are depicted in Figure 2.

The method for grouping wastes with similar physical and chemical properties is provided in the Waste Analysis Plan, Attachment B to *WIPP Hazardous Waste Facility Permit* (WIPP WAP). <sup>(75)</sup>

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Wastes are initially grouped by physical form (i.e., summary category groups) as Homogeneous Solids (S3000), Soils/Gravel (S4000), or Debris Waste (S5000) and then grouped under a WMC group based on the bulk physical form of the overall waste stream. The WMCs are assigned to the various waste IDCs to identify the bulk physical form or matrix making up the majority of the waste material and is based off of AK information. The WMC is used to identify the expected matrix that makes up the majority of the waste material in each container. The WIPP Permit requires that the WMC assignment be based on the majority of waste in the waste stream.

For example, the Homogeneous Solids (S3000) summary category group is split into Inorganic (S3100) and Organic (S3200) subgroups. As shown, the Inorganic subgroup contains two final waste forms: Solidified Inorganics (WMC group with WMCs S3111, S3113 etc.) and Salt Wastes (WMC group with WMCs of S3141 and S3143). The Organic subgroup contains only the Solidified Organics final waste form (WMC group with WMCs: S3114, S3150 etc.).

The delineation of waste streams based on assigned SCG, consideration of the treatment process, HWNs, and the grouping of WMCs by WMC Groups allows waste stream management and disposition to be as efficient as possible.

Table 1 is a presentation of the results of grouping TRU wastes under the WMC groups according to their WMC assignments and includes a short description and the generator assigned IDCs.

All wastes addressed by this report have WMCs beginning with an “S,” except BL IDC 338, Non-Activated Lead, assigned to WMC X7211. This metal waste is grouped under the Lead/Cadmium Metal WMC group as shown in Figure 2.

Waste descriptions and WMC assignment for all waste are verified by real-time radiography (RTR) or visual examination (VE). RTR and VE results are also used to identify the presence of prohibited items.

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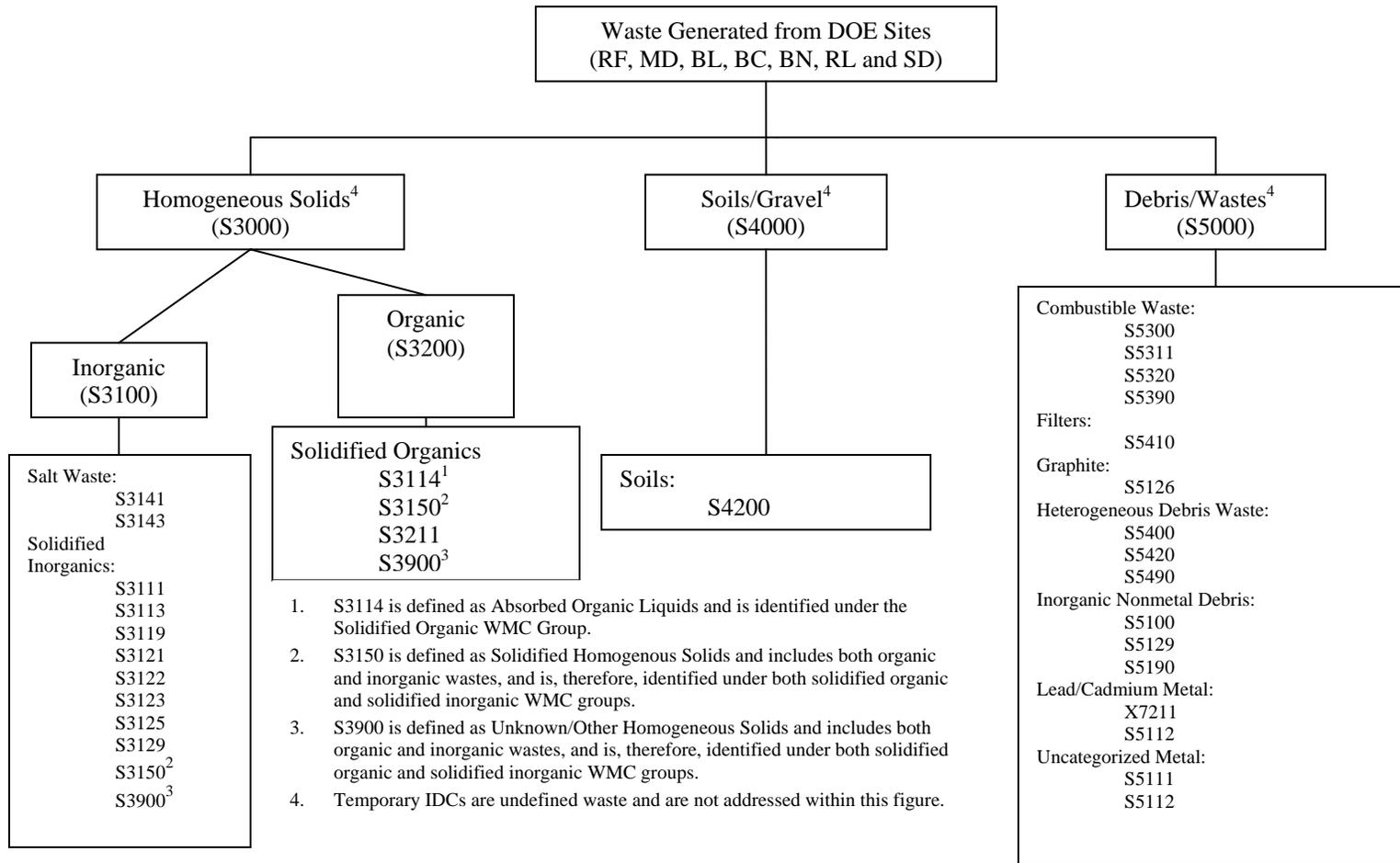


Figure 2. WMC assignment/grouping diagram.

**Advanced Mixed Waste Treatment Project**  
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Table 1. Waste Matrix Code Grouping.

Waste Matrix Code Groups	Waste Matrix Codes	WMC Description	Gen <sup>c</sup>	IDC	IDC Description
<b>S3000 Homogeneous Solids</b>					
S3100 Inorganic Homogeneous Solids					
Salt Waste	S3141	Chloride Salts	RF	409	Molten Salt-30% Unpulverized
			RF	410	Molten Salt-30% Pulverized
			RF	411	Electrorefining Salt
			RF	412	Gibson Salts
			RF	414	Direct Oxide Reduction Salt
Salt Waste	S3143	Nitrate Salts	RF	005	Evaporator Salts
			RF	745	Pits 11 & 12 Evaporator Salts
Solidified Inorganics	S3111	Ash	RF	420	Ash, Incinerator (Virgin)
			RF	421	Ash Heels
			RF	422	Soot
			RF	425	Fluid Bed Ash
Solidified Inorganics	S3113	Inorganic Particulate Absorbents	BN	507	Absorbed Aqueous Liquids
			MD	834	High Level Acid
			MD	835	High Level Caustic
			RF	375	Oil-Dri
Solidified Inorganics	S3119	Unknown/Other Inorganic Particulates	RF	311	Graphite Heels
			RF	361	Insulation Heel
			RF	393	Sand, Slag, and Crucible Heels
Solidified Inorganics	S3121	Wastewater Treatment Sludges	MD	836	High Level Sludge/Cement
			RF	001	First Stage Sludge
			RF	002	Second Stage Sludge
			RF	007	Building 374 Dry Sludge
			RF	807 <sup>b,1</sup>	Bldg 374 Bypass Sludge
			RF	741	Pits 11 & 12 First Stage Sludge
			RF	742	Pits 11 & 12 Second Stage Sludge
Solidified Inorganics	S3122	Pond Sludges	RF	095	Sludge
			RF	995	Sludge
Solidified Inorganics	S3123	Off-Gas Treatment Sludges	RF	290	Filter Sludge
Solidified Inorganics	S3125	Reprocessing Sludges	MD	811	Evaporator and Dissolver Sludge
Solidified Inorganics	S3129	Unknown/Other Inorganic Sludges	RF	976	Building 776 Process Sludge
			RF	978	Laundry Sludge

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**Table 1.** (continued)

Waste Matrix Code Groups	Waste Matrix Codes	WMC Description	Gen <sup>c</sup>	IDC	IDC Description
Solidified Inorganics	S3150	Solidified Homogeneous Solids	BC	204	Solidified Solutions
			RF	004	Special Setups
			RF	292	Cemented Sludge
			RF	744	Pits 11 & 12 Special Setups
			RF	800	First Stage Sludge-Cemented
			RF	802	Solidified Laboratory Waste
			RF	803	Solidified DCP Sludge
			RF	806	Solidified Process Solids
			RF	696 <sup>b,1</sup>	Bldg 771 Cemented Incinerator Sludge
			RF	817	Cemented SS and C Heels
			RF	818	Cemented Incinerator Ash
			RF	820	Cemented Soot
			RF	823	Cemented Miscellaneous Sludge
Solidified Inorganics	S3900	Unknown/Other Homogeneous Solids	BN	505	Inorganic Homogeneous Solids
<b>S3200 Organic Homogeneous Solids</b>					
Solidified Organics	S3114 <sup>a</sup>	Absorbed Organic Liquids	BN	509	Absorbed Organic Liquids
			BN	603	Absorbed/Solidified Analytical Waste <50% debris
			BN	605	Absorbed Liquids TSCA/PCB
			RF	003 <sup>h</sup>	Organic Setups, Oil Solids
			RF	743	Pits 11 & 12 Organic setups
Solidified Organics	S3150	Solidified Homogeneous Solids	RF	700 <sup>i</sup>	OASIS Waste
			RF	801 <sup>i</sup>	Solidified Organics
Solidified Organics	S3211	Organic Homogeneous Solids	RF	432	Resin, Leached and Cemented
			RF	822	Cemented Resins
Solidified Organics	S3900	Unknown/Other Homogeneous Solids	BN	511	Organic Homogeneous Solids
			SD <sup>j</sup>	704	SDA Homogeneous Solids

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**Table 1.** (continued)

Waste Matrix Code Groups	Waste Matrix Codes	WMC Description	Gen <sup>c</sup>	IDC	IDC Description
<b>S4000 Soil/Gravel</b>					
Soils	S4200	Soil/Debris	BN	501	AMWTP Soil
			MD	842	Contaminated Soil
			RF	090	Dirt
			RF	697 <sup>d</sup>	Dirt
			RF	990	Dirt
			SD <sup>j</sup>	706	SDA Soil
<b>S5000 Debris Waste</b>					
Combustible Waste	S5300	Organic Debris	RF	302	Benelex and Plexiglas
			RF	33A	WETP Bin Program – Combustibles A
			RF	33B	WETP Bin Program – Combustibles B
			RF	330 <sup>e</sup>	Paper and Rags – Dry
			RF	336 <sup>e</sup>	Paper and Rags – Moist
			RF	337 <sup>e</sup>	Plastics, Teflon, Wash, PVC
			RF	464	Benelex and Plexiglas
			RF	831	Dry Combustibles
			RF	832	Wet Combustibles
			RF	833	Plastics, TRU Mixed
Combustible Waste	S5311	Leaded Gloves/Aprons	RF	339	Leaded Rubber Gloves and Aprons
			RF	463	Leaded Rubber Gloves and Aprons
Combustible Waste	S5320	Wood Debris	RF	970	Wood
Combustible Waste	S5390	Unknown/Other Organic Debris	RF	430	Unleached Ion Column Resin
			RF	431	Leached Resin
			RF	460	Washables, Rubber, Plastic
			RF	900	LSA Paper, Plastic, etc.
			RF	900	LSA Paper, Plastic, etc.
Filters	S5410	Composite Filters	RF	328	Ful-Flo Incinerator Filters
			RF	335	Absolute 8 × 8 Filters
			RF	338	Insulation and CWS Filter Media
			RF	360	Insulation
			RF	376	Cemented Insulation and Filter Media
			RF	490	HEPA Filters and CWS Filters
			RF	491	Plenum Prefilters

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**Table 1.** (continued)

Waste Matrix Code Groups	Waste Matrix Codes	WMC Description	Gen <sup>c</sup>	IDC	IDC Description
Graphite	S5126	Graphite Debris	RF	300 <sup>f</sup>	Graphite Molds
			RF	301 <sup>f</sup>	Graphite Cores
			RF	303 <sup>f</sup>	Scarfed Graphite Chunks
			RF	310 <sup>f</sup>	Graphite Scarfings
			RF	312 <sup>f</sup>	Coarse Graphite
Heterogeneous Debris Waste	S5400	Heterogeneous Debris	SD <sup>j</sup>	705	SDA Heterogeneous Debris
Heterogeneous Debris Waste	S5420	Predominantly Inorganic Debris	RF	241	Americium Process Residue
			RF	960	Concrete, Asphalt, etc.
Heterogeneous Debris Waste	S5490	Unknown/Other Heterogeneous Debris	BC	201	Non-combustible Solids
			BC	202	Combustible Solids – Paper/Cloth
			BC	203	Paper, Cloth, Metals, Glass
			RF	372	Grit
			RF	374 <sup>d</sup>	Blacktop, Concrete, Dirt, and Sand
			BN	508	AMWTP Newly Generated Debris
			BN	510	Supercompacted Debris
			BN	526	Laboratory waste >50% debris
			BN	604	Debris TSCA/PCB
			MD	801	Rags, Paper, Wood, etc.
			MD	802	Dry Box Gloves and O-rings
			MD	803	Metal, Equipment, Pipe, Valves, etc.
			MD	804	Plastic, Tygon, Mani-Boots, etc.
			MD	805	Asbestos Filters
			MD	810	Glass Flasks, Sample Vials, Etc.
			MD	813	Glass Filters and Fiberglass
			MD	814	Graphite Waste
			MD	824	Equipment Boxes, Non-combustible
			MD	825	Equipment Drums, Non-combustible
			MD	826	Equipment Boxes, Combustible
MD	827	Equipment Drums, Combustible			
MD	838	<10 nCi/g Non-combustible			
MD	847	LSA<100 nCi/g Combustible			

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**Table 1.** (continued)

Waste Matrix Code Groups	Waste Matrix Codes	WMC Description	Gen <sup>c</sup>	IDC	IDC Description
			MD	848	LSA<100 nCi/g Non-combustible
			RF	750	Pits 11 & 12 Debris
			RF	950	LSA Metals, Glass, etc.
			RL	710	Hanford B&W Debris (BWD)
			RL	711	Hanford PUREX Plant Debris (PUREXD)
			RL	712	Hanford PFP Debris (PFPD)
			RL	713	Hanford Site Complex Debris (SCD)
Inorganic Nonmetal Debris	S5100 <sup>g</sup>	Inorganic Debris	RF	441 <sup>g</sup>	Raschig Rings, Unleached
			RF	442 <sup>g</sup>	Raschig Rings, Leached
Lead/Cadmium Metal	S5112	Metal Debris With Lead	RF	488	Glovebox Parts w/Lead
Inorganic Nonmetal Debris	S5122	Glass debris	RF	440	Glass
			RF	44A	WETP Bin Program – Glass
Inorganic Nonmetal Debris	S5123	Ceramic/brick debris	RF	371	Fire Brick
			RF	377	Coarse Fire Brick
Inorganic Nonmetal Debris	S5190	Unknown/Other Inorganic Debris	RF	368	Magnesium Oxide Crucibles
			RF	370	Leco Crucibles
			RF	391	Crucibles and Sand
			RF	392	Sand, Slag, and Crucibles
Lead/Cadmium Metal	X7211	Non-Activated Lead	BL	338	RWMC Lead Shielded Overpack Empty
Uncategorized Metal	S5111	Metal Debris without Lead or Cadmium	RF	416	Zinc Magnesium Alloy Metals
Uncategorized Metal	S5112	Unknown/Other Metal Debris	RF	320	Heavy Non-special Source Metal
			RF	321	Lead
			RF	480	Non-special Source Metal
			RF	481	Leached Non-special Source Metal
			RF	48A	WETP Bin Program – Metal
Unknown/Other					
N/A	N/A	Undetermined Form	UN <sup>k</sup>	000	Undetermined Form
Solidified Organics	S3900	Unknown/Other Homogeneous Solids	UN <sup>k</sup>	00A	Undefined Homogeneous Solids
Heterogenous Debris	S5900	Unknown/Other Debris	UN <sup>k</sup>	00B	Undefined Debris
Soils	S4900	Soil/Debris	UN <sup>k</sup>	00C	Undefined Soil

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**Table 1.** (continued)

<b>Waste Matrix Code Groups</b>	<b>Waste Matrix Codes</b>	<b>WMC Description</b>	<b>Gen<sup>c</sup></b>	<b>IDC</b>	<b>IDC Description</b>
N/A	N/A	Undefined Liquids	UN <sup>k</sup>	00D	Undefined Liquids
Unknowns	S9000	Other/Unknown Solids	RF	980	Equipment

- a. S3114 is the WMC for solidified organics. WMC group assigned is dependent upon the ratio of organics and inorganic absorbent. The waste would be assigned to S3200 if organic component is > 50%.
- b. The INL 3,100 m3 Project assigned RF IDC 696 to RF IDC 807b waste to eliminate some of the confusion that resulted from one IDC being associated with two different waste streams. RF IDC 807a continues to be RF IDC 807.
- c. Generator sites/areas are identified in this table as follows: BC = Battelle Columbus, BN = AMWTP, RF = Rocky Flats Plant, BL = Bettis Laboratories, MD = Mound Laboratories, SD = INL Subsurface Disposal.
- d. RF IDC 374, Blacktop, Concrete, Dirt, and Sand, has two WMCs (for IDC 374 and 374a /697) that can be assigned to drum. IDC determination is based on the majority of waste in the containers:  
 > 50% vol. dirt or gravel is WMC S4200 (which is assigned RF IDC 697 versus 374a to differentiate in the database)  
 > 50% vol. debris (IDC 374 - concrete, blacktop, metal, combustibles, plastics, gloves, etc.) is WMC S5490.
- e. Part of CCP profile ID-RF-S5300A, RFETS Combustibles and Plastics Stored at INL
- f. Part of CCP profile ID-RF-S5126, TRU Mixed Graphite Debris
- g. Part of CCP profile ID-RF- S5100, Rocky Flats Raschig Rings Stored at the INL
- h. Part of CCP profile ID-RF-S3114, Organic Setups
- i. Part of CCP profile ID-RF-S3150A, Organic and Sludge Immobilization System Waste
- j. CCP activity
- k. IDCs assigned a "UN" prefix are temporary IDCs and do not represent the final IDC or WMC.
- l. 807a was generated after 3/21/87 as a uncemented bypass sludge. 807b (also identified as IDC 696) is described as cemented incinerator sludge (WMC 3150) and was generated between 1985 and 1987.

**Advanced Mixed Waste Treatment Project**  
**AMWTP Waste Stream Designations**

### **3.0 AMWTP WASTE STREAMS**

Determining the appropriate waste stream SCG, WMC group, WMC and HWNs based on AK comprises the initial characterization tool at the AMWTP. AK is used to describe and define the waste stream and used to initially characterize wastes by item description code (IDC). Initially, using AK, the AMWTP classifies each IDC, rather than individual containers, as hazardous or non-hazardous and assigns initial HWNs, SCGs, WMCs groups, WMCs. After initial characterization is complete, RTR/VE radioassay, HSG, sampling and analysis may be used to augment AK information. IDCs and the applicable SCG, WMC group, WMC and HWNs are then placed into AMWTP waste stream profiles. Wastes with a S9000 or S5900 WMC undergo case-by-case assessment and characterization to determine the assignment of the waste to an appropriate waste stream.

AMWP Waste streams and applicable waste stream profiles are developed based on the physical form of the waste, waste generation processes, hazardous constituents, and whether the waste is to be direct shipped or treated before shipment. One or more IDCs may be grouped into a waste stream based on the waste generation process, hazardous constituents and final physical form of the waste. The delineation of TRU waste streams complies with the WIPP WAP requirements and is based on the DOE Waste Treatability Group Guidance document (DOE/LLW-217).<sup>(76)</sup>

TRU wastes at the AMWTP are shipped directly to WIPP or undergo treatment, (e.g., removing prohibited items, absorption, compacting) or undergo repackaging for shipment and subsequent emplacement at WIPP.

The TRU direct ship waste stream profile forms (WSPFs) are consistent with the standard approach being used at the INL to characterize waste streams and comply with the WIPP WAP requirements.

The supercompacted debris waste WSPF consist of multiple feedstock debris wastes that were designated for the same treatment process based largely on physical form, compatibility, and amenability to the treatment. Approved debris waste IDCs are identified as feedstock for the supercompactor. Just as with the direct ship waste stream, RTR/VE sampling and analysis are used to augment AK information. The waste streams targeted for feedstock to the supercompactor are debris and are shown in Table 5. RPT-TRUW-30 lists the debris IDCs that are approved for supercompaction.

The IDCs used to build direct ship and supercompaction waste streams are AMWTP newly generated wastes, received from off-site facilities, and/or part of the retrievably stored wastes at the AMWTP. All wastes must be defined by AK to be a candidate for inclusion in an appropriate waste stream.

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The HWNs initially associated with the IDCs in this report were obtained from either EDF-RWMC-803, Chemical Constituents in TSA Waste <sup>(30)</sup> or in the case of off-site waste, HWNs are obtained from AMWTP waste stream profile forms provided by the off-site generator that are required by the AMWTP waste acceptance criteria and by information in AK documents provided by the generator.

Due to the conservative nature of the original HWN assignment at the generator location (or where the waste undergoes AMWTP treatment to remove a characteristic prior to shipment), in some instances the original HWN may not apply to the final approved WSPFs (e.g., D002, D001, F003 etc). These exceptions are documented in AK Discrepancy Reports and justification is performed according to MP-TRUW-8.13 (Collection, Review, and Management of Acceptable Knowledge Documentation) and MP-TRUW-8.2 (Quality Assurance Project Plan). Hazardous waste number assignments for disposal at WIPP are not final until WSPFs are developed and approved by CBFO.

Polychlorinated biphenyls (PCBs) were identified during collection and compilation of AK as potential contaminants for some RF and BC wastes shipped to and stored at the INL. There is evidence that limited IDCs have PCBs due to treatment of oils containing PCBs or due to containing PCB oil filled equipment (e.g., BC 203, RF 003). Although any IDC may contain a PCB electrical item such as a light ballast or contain oil filled equipment, based on AK documentation only two IDCs are classified in their entirety as PCB IDCs. Those IDCs are BC 203 and RF 003.

IDC RF 480 (Non-special Source Metal) has been found to contain large oil filled PCB capacitors. This IDC is evaluated on a case-by-case basis. When PCB items are found in this IDC they are removed and managed as PCB waste.

Undefined wastes and associated IDCs (i.e., IDCs: UN 000, UN 00A, UN 00B, UN 00C and UN 00D) undergo PCB evaluation on a case-by-case basis.

All other IDCs within the AMWTP inventory are classified as non-PCB based on current AK documentation. Any IDC has the potential to contain small electrical items such as fluorescent light ballasts and when found will be evaluated on a case-by-case basis.

Unless tested to verify the actual concentration of PCBs within the waste, the AMWTP handles all waste with known or suspected PCBs as being greater than 500 ppm. This requirement is specified with the WIPP PCB disposal authorization and 40 CFR 761.50(a)(5) and within 40 CFR 761.50. Drums that contain regulated PCB waste are managed and shipped in accordance with applicable regulatory requirements, the WIPP Waste Acceptance Criteria (WAC) and the WIPP PCB disposal authorization.

Based on a review of the AK record and current characterization and augmentation results, the following IDCs are either classified as PCB, or have been confirmed by RTR or VE to contain PCBs.

## **Advanced Mixed Waste Treatment Project**

### **AMWTP Waste Stream Designations**

1. **IDC RF 003:** (Organic Setups, Oil Solids) This waste is known to contain PCBs. Unless tested to verify actual concentration, IDC RF 003 is considered to have greater than 500 ppm PCB contamination.
2. **Battelle Columbus Laboratories (BC): Based on AK, IDC BC 203** contains waste oils drained from various equipment pieces are a potential source of PCBs of unknown concentrations. These waste oils were absorbed in Oil-Dri in 1-gallon paint cans. An estimated 20 cans were placed in IDC 203 waste containers. Due to the limited number of drums within this IDC, the IDC is classified as PCB. No other BC IDCs have been identified by AK as having the potential for PCB contamination. Unless tested to verify actual PCB concentration, IDC BC 203 is considered to have greater than 500 ppm PCB contamination
3. **IDC RF 480:** (Non-special Source Metal - debris) AK records indicate that one or more containers contain PCB-contaminated equipment. PCB-containing items such as capacitors/ballast have been found in boxed waste of IDC RF 480. the overall number of PCB-items found to-date are extremely small in relation to the overall volume of waste within IDC RD 480 and as a result IDC RF 480 is only considered a PCB waste stream on a case-by-case container basis.<sup>(83)</sup>
4. **IDCs UN 000, IDC UN 00A, UN 00B, UN 00C and UN 00D:** (Undetermined form and Undefined homogeneous solids, debris, soil, liquids, respectively) Undetermined and Undefined wastes will be evaluated for PCB potential through the normal processes of RTR, VE and applicable IDC assignment. That evaluation and applicable IDC assignment will determine the presence or absence of PCBs for waste management purposes. In the case of organic sludge wastes, sampling and analysis may be required for making a final determination of PCB content. Where PCB sampling and analysis, of retrieved containers of unknown organic sludge is not conducted for PCBs, the waste is temporarily assumed to be >500 ppm PCBs until confirmation of original IDC is made or testing is conducted. Once confirmation of the container's original IDC takes place or test results are obtained (e.g., for unknowns assigned newly generated IDCs), the PCB status defaults to the confirmed IDC or test results. Prior to retrieval these wastes will be assumed to be non-PCB for annual inventory purposes.

## **4.0 HOMOGENEOUS SOLID WASTE**

### **4.1 Solid Wastes With Previously Approved Waste Stream Profiles**

The three solidified RF homogeneous solid waste forms previously characterized at the INL for shipment to WIPP are presented in Table 2 under the subheading titled, The Following Waste Streams were Characterized By The INL 3,100 m<sup>3</sup> Project. These solidified wastes and associated WSPFs were approved by CBFO. The method used by the INL to delineate these solidified waste streams combined relatively homogeneous wastes (IDCs) with similar statistical distributions (means and variances). The preliminary groupings were based on generator information, acceptable knowledge, and historical analytical data. The wastes were grouped in this manner to reduce the number of samples required for Resource Conservation and Recovery Act (RCRA) characterization and WIPP WAP compliance, and to simplify processing during production operations.

## ***Advanced Mixed Waste Treatment Project*** **AMWTP Waste Stream Designations**

The AMWTP concurs with the original designations and hazardous waste determinations as defined in the previous INL WSPFs. The original waste stream lot populations addressed by the INL WSPFs consisted of those containers in accessible storage. Additional RCRA characterization (i.e., coring) is performed as additional populations are retrieved, identified and placed into waste lots. Augmentation of AK characterization for subsequent container lots involve RTR, headspace gas (HSG) sampling, coring and solid sampling as well as radioassay. All characterization activities are conducted in compliance with the applicable requirements associated with the AMWTP and WIPP RCRA permit requirements, as well as, WIPP shipping requirements.

### **4.2 Solid Wastes Not Previously Characterized**

Homogeneous solid wastes with similar matrices (IDCs) that were not previously characterized are presented in Table 2 under the subheading, The Following Waste Streams are Being Characterized by the AMWTP. These groupings are the existing and proposed waste stream delineations (i.e., waste stream numbers) and include IDCs and WMCs as currently assigned to each waste.

All TRU waste streams are developed and characterized by the AMWTP in following general manner:

- The AK will be gathered, and a thorough review of documentation will be conducted.
- RTR or VE and radioassay activities are conducted on the wastes.
- Additional sampling and analytical data will be obtained as necessary per applicable requirements.
- After all applicable data and information is evaluated, a WSP is developed to capture all applicable information.
- The wastes are then processed as necessary for disposition at WIPP.

Wastes generated by the MD, BC, RF, RL, BL and the AMWTP (i.e., BN) facilities will be delineated into specific waste streams based on the following criteria:

- Waste within a waste stream will be generated from a single process or activity and will be similar in material, physical form, and hazardous constituents due to the single process or activity using the same procedures, methods, chemical constituents, etc. (e.g., wastewater treatment, plutonium recovery and processing, glovebox operations).
- The majority of the waste in each container will have similar physical waste matrices as defined by the WMC.
- The wastes will comply with compatibility requirements.
- Waste packaging will achieve compliance with the applicable regulatory and facility requirements.

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The proposed waste stream groupings and proposed waste stream number for each waste stream are presented in Table 2. The WSPF number is based on an IDC or Transuranic Waste Baseline Inventory Report (TWBIR) number associated with the waste stream. Typically this will be the IDC or TWBIR number contributing the greatest volume to the waste stream. For example, the waste stream containing special setups (IDCs RF 004 and RF 802) will be numbered BN004. For waste streams that were previously characterized by the INL, the number is BN plus the previous WSPF number. Those IDCs identified as having come from generator BN (i.e., AMWTP newly generated IDCs) are further discussed in Section 7.0.

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**AMWTP Waste Stream Designations**

Table 2. Homogeneous Solids Waste Streams (S3000)

BN WS #	Waste Stream Description	IDC	IDC Description	Site	BIR-ID	WMC
THE FOLLOWING WASTE STREAMS WERE CHARACTERIZED BY THE INL 3,100 m <sup>3</sup> PROJECT.						
<b>INW216</b>	First/Second Stage Sludge	001 <sup>b</sup>	First Stage Sludge	RF	216	S3121
		002 <sup>b</sup>	Second Stage Sludge	RF	228	S3121
		800 <sup>b</sup>	First Stage Sludge-Cemented	RF		S3150
<b>INW218</b>	Building 374 Sludge	007 <sup>b</sup>	Building 374 Dry Sludge	RF	218	S3121
		803 <sup>b</sup>	Solidified DCP Sludge	RF	280	S3150
		807a <sup>b</sup>	Bldg. 374 Bypass Sludge (After 3/21/87)	RF		S3121
<b>INW222</b>	Miscellaneous Cemented Sludge	292	Cemented Sludge	RF	222	S3150
		696 <sup>a</sup>	Bldg. 771 Cemented Incinerator Sludge	RF		
THE FOLLOWING WASTE STREAMS ARE BEING CHARACTERIZED BY THE AMWTP						
<b>BNINW216</b> (approved) (Ref. 81)	First/Second Stage Sludge	001 <sup>b</sup>	First Stage Sludge	RF	216	S3121
		002 <sup>b</sup>	Second Stage Sludge	RF	228	S3121
		800 <sup>b</sup>	First Stage Sludge-Cemented	RF		S3150
<b>BNINW218</b> (approved) (Ref. 82)	Building 374 Sludge (approved)	007 <sup>b</sup>	Building 374 Dry Sludge	RF	218	S3121
		803 <sup>b</sup>	Solidified DCP Sludge	RF	280	S3150
		807a <sup>b</sup>	Bldg. 374 Bypass Sludge (After 3/21/87)	RF		S3121
<b>ID-RF-S3114</b> (by CCP) (Ref. 67)	Organic Setups	003	Organic Setups, Oil Solids	RF	309	S3114
<b>BN004</b> (approved) (Ref. 66)	Special Setups	004	Special Setups	RF	157	S3150
		802	Solidified Laboratory Waste	RF	256	
<b>BN005</b>	Nitrate Salts	005	Evaporator Salts	RF	315	S3143
<b>BN050</b>	Solidified Solutions	050	Solidified Solutions	BL	353	S3113
<b>BN095</b>	Pond Sludge	095	Sludge	RF		S3122
		995	Sludge	RF	375	
<b>BN204</b>	Solidified Solutions	204	Solidified Solutions	BC	332	S3150

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**AMWTP Waste Stream Designations**

Table 2. (continued)

BN WS #	Waste Stream Description	IDC	IDC Description	Site	BIR -ID	WMC
<b>BN222</b>	Miscellaneous Cemented Waste	292	Cemented Sludge	RF	222	S3150
		696 <sup>a</sup>	Bldg. 771 Cemented Incinerator Sludge (Before 3/22/87)	RF		
		806	Solidified Process Solids	RF	068	
		817	Cemented SS and C Heels	RF		
		818	Cemented Incinerator Ash	RF		
		820	Cemented Soot	RF		
		823	Cemented Miscellaneous Sludge	RF		
<b>BN290</b>	Filter Sludge	290	Filter Sludge (Packaged prior to 1974)	RF		S3123
<b>BN311</b>	Process Heels	311	Graphite Heels	RF	367	S3119
		361	Insulation Heel	RF	373	
		393	Sand Slag and Crucible Heels	RF	348	
<b>BN375</b>	Absorbents	375	Oil-Dri	RF	163	S3113
<b>BN409</b>	Chloride Salts	409	Molten Salt-30% Unpulverized	RF	311	S3141
		410	Molten Salts-30% Pulverized	RF	356	
		411	Electrorefining Salt	RF	355	
		412	Gibson Salts	RF	354	
		414	Direct Oxide Reduction Salt	RF	314	
<b>BN421</b>	Uncemented Ash/Soot	420	Ash, Incinerator (Virgin)	RF	363	S3111
		421	Ash Heels	RF	362	
		422	Soot	RF	361	
<b>BN425</b>	Uncemented Ash/Soot	425	Fluid Bed Ash	RF	357	S3111
<b>BN432</b>	Homogeneous Resin Waste	432 <sup>c</sup>	Resin, Leached and Cemented	RF	317	S3211
		822	Cemented Resins	RF		
<b>BN505</b>	Inorganic Homogeneous Solids	505	Inorganic Homogeneous Solids	BN		S3900

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**AMWTP Waste Stream Designations**

Table 2. (continued)

BN WS #	Waste Stream Description	IDC	IDC Description	Site	BIR-ID	WMC
<b>BN507</b>	Absorbed Inorganic Liquids	507	Absorbed Aqueous Liquids	BN		S3113
<b>BN509</b>	Absorbed Organic Liquids	509	Absorbed Organic Liquids	BN		S3114
<b>BN511</b>	Organic Homogeneous Solids	511	Organic Homogeneous Solids	BN		S3900
<b>BN603</b>	Absorbed/Solidified Analytical Waste <50% debris	603	Absorbed/Solidified Analytical Waste <50% debris	BN		S3114
<b>BN835</b> (approved) (Ref. 55)	Solidified Acid/Caustic	834	High Level Acid	MD	174	S3113
		835	High Level Caustic	MD	177	
<b>BN836</b> (approved) (Ref. 80)	Cemented Sludge	836	High Level Sludge/Cement	MD	179	S3121
<b>BN976</b>	Building 776 Process Sludge	976	Building 776 Process Sludge	RF	188	S3129
		978	Laundry Sludge	RF	181	
<b>ID-RF-S3150A</b> (By CCP) (Ref. 68)	Organic and Sludge Immobilization System Waste	700	OASIS Waste	RF	164	S3150
		801	Solidified Organics	RF	330	
<b>ID-SDA-SLUDGE</b> (CCP)	Organic Sludge	704	SDA Homogeneous Solids	SD		S3900

- a. The AMWTP has assigned IDC RF 696 to IDC RF 807b to eliminate some of the confusion that has resulted from one IDC being associated with two different waste streams. IDC RF 807a continues to be IDC RF 807.
- b. EDF-RWMC-803 indicates that free liquids that exceed WIPP WAC limits may be corrosive. The AK record has since been updated (C224A) to remove D002 from all First/Second Stage Sludge and Building 374 Sludge inventory waste, including waste that contains excess free liquids. See Discrepancy Report D006A for further information.
- c. AK indicates that IDC RF 432 waste generated after 1974 does not meet the definition of a characteristic or listed waste. Sampling will be used to resolve the hazardous waste determination. Hazardous waste numbers assigned to IDC RF 432 in EDF-RWMC-803 have been assigned to waste stream BN432 (Cemented Resin – Hazardous). See Discrepancy Report D019A for further information.

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**AMWTP Waste Stream Designations**

### 5.0 SOIL/GRAVEL WASTE

Six soil waste IDCs have been identified in the soil/gravel summary category group (S4000) and have been grouped into five waste streams, as shown in Table 3. The soil IDCs generated by AMWTP will include any TRU or mixed TRU contaminated soil generated by AMWTP during retrieval of soil/gravel waste collected from the berm and/or overburden soils. Soil waste determined to be other than TRU waste, such as clean waste, low-level waste (LLW), and mixed low-level (MLLW) will be segregated from the TRU-contaminated soil/gravel waste and assigned the appropriate IDC (e.g., BN 625 or BN 626). See Section 7 for further discussion of newly generated waste. Existing soil/gravel wastes will be repackaged if necessary to comply with WAP and CH-TRU Waste Content Codes (CH-TRUCON) requirements. All soil waste determined to be TRU and mixed TRU will be disposed of at the WIPP facility.

Table 3. Soil/Gravel Waste Streams (S4000)

WSP	IDC	Waste Stream and IDC Description	Site	BIR-ID	WMC
BN090	090	Dirt	RF		S4200
	990	Dirt	RF		
BN842	842	Contaminated Soil	MD	263	S4200
BN501	501	AMWTP Soil	BN		S4200
BN697	697 <sup>a</sup> (374)	Dirt	RF		S4200
ID-SD-SOIL (CCP)	706	SDA Soil	SD		S4200

a. The AMWTP has assigned RF IDC 697 to individual containers of RF IDC 374 that are > 50 % by volume soil/gravel to address the database issues of two different WMCs associated with one IDC. RF IDC 374 continues to be used for waste containers with >50 % by volume debris.

Characterization of the soil/gravel waste includes AK and augmentation of AK characterization through intrusive sampling and analysis. Soil samples shall be collected to resolve HWNs as assigned by AK for all TRU S4000 wastes. All sampling activities will be in accordance with approved methods (i.e., coring or other EPA approved sampling methods and/or WIPP Permit requirements). Intact retrieved waste containers to be sampled will be selected randomly from the waste stream population.

## **Advanced Mixed Waste Treatment Project AMWTP Waste Stream Designations**

Newly packaged soils from the berm and overburden are initially characterized by the AMWTP by process knowledge and/or sampling and analysis and included into the AK record. In addition, newly packaged TRU contaminated soils undergo sampling in accordance with WIPP WAP requirements. Any samples taken for purposes of augmentation of AK will be analyzed, as applicable, for totals or toxicity characteristic leaching procedure (TCLP) and volatile/Semi-volatile organic constituents to determine final listed and/or characteristic status. The generator will use the results from these analyses to determine if a waste exhibits a toxicity characteristic or is classified as a listed waste. Radioanalysis is used to determine LLW, MLLW, TRU, and mixed transuranic [MTRU] status and to facilitate segregation of containers of contaminated soil from clean soil.

### **6.0 DEBRIS WASTE**

Debris waste is managed, characterized, and dispositioned as described in the following subsections.

#### **6.1 Debris Wastes with Previously Approved Waste Stream Profiles**

Debris wastes that were characterized at the INL, certified, and shipped to WIPP under previously approved waste stream profiles are listed in Table 4 (i.e., WSPFs: INW276.003, INW276.004, INW296, INW243, INW247, INW169, INW198, and INW161). Debris waste streams managed by AMWTP are delineated as presented in Table 4. Some of the AMWTP waste streams indicate additional IDCs that represent retrievable waste containers not previously included in the INL waste streams.

#### **6.2 Direct Ship Debris Wastes Not Previously Characterized**

Direct ship debris waste streams as indicated in Table 4 are developed and characterized individually by the AMWTP for direct shipment to WIPP. Wastes generated by all sites (MD, BC, RF, and BL) and the AMWTP facility (BN) are delineated into specific waste streams based on the same criteria previously outlined. Waste stream profiles (ID-RF-S5126, ID-RF-S5100-A, and ID-RF-S5300-A) and AK summaries (CCP-AK-INL-002, CCP-AK-INL-006, and CCP-AK-INL-004) have been written by the Central Characterization Project (CCP) in coordination with AMWTP for RF debris wastes; Graphite (IDCs RF 300, 301, 303, 310, and 312), Raschig Rings (IDCs RF 441 and 442) and Combustibles and Plastics (IDCs RF 330, 336, and 337), respectively. These WSPF and AK summary numbers were assigned based on CCP AK procedures and are included in Table 4.

### **7.0 AMWTP NEWLY GENERATED WASTE STREAM**

#### **7.1 Supercompacted Waste**

The list of the potential supercompactor feedstock debris IDCs is presented in Table 5. The IDCs identified as generator BN represent newly generated wastes that are further discussed in this section.

## **Advanced Mixed Waste Treatment Project**

### **AMWTP Waste Stream Designations**

Specifics for the supercompacted waste stream are presented in Table 6. The WMC assigned to the supercompacted waste stream is S5490, Unknown/Other Heterogeneous Debris. S5490 is defined as follows:

*This unknown/other-detailed category includes waste that is consistent with the definition for the Heterogeneous Debris (S5400) summary category, but:*

- *Is insufficiently characterized to enable more definitive assignment into any of the S5410, S5420, S5450, or S5460 specific-detailed categories, or*
- *Does not meet the criteria for assignment into any of the S5410, S5420, S5440, S5450, or S5460 specific-detailed categories.*

The waste material parameters of the feedstock drums are identified and characterized prior to shipment. However the final waste form is very heterogeneous without a clear dominant category. This is because the feedstock debris is fairly evenly split between inorganic and organic debris. The inorganic debris comprises the greatest volume of waste, but most of the inorganic debris contains a significant amount of organic debris by volume. For instance, metal debris packaged at RF (the largest debris feedstock source) tends to have a significant amount of plastic bags, tape, rubber gloves, paper and rags included in the metal waste containers.

The process of waste characterization by the type of waste container (box, bin, and drum), identification of feedstock by IDC, and the flow of waste to the supercompactor is illustrated in Figure 3.

## **7.2 Retrieval Wastes Repackaged (Newly Generated)**

During retrieval it is projected that some of the waste containers either will not be intact or will have container integrity issues that require repack or overpack. In some cases the waste will not be initially identifiable because of the absence or illegibility of drum labels/markings. A process flow chart was developed for the proposed handling and characterization of the wastes. The following is a brief description of the proposed process to identify/characterize the waste for storage and potential shipment to WIPP.

For waste containers that are intact sufficiently to be handled without repackaging, the normal procedures for characterization (RTR, radioassay, and HSG sampling) will be followed. Otherwise a newly generated waste stream will be developed.

For newly generated waste containers without sufficient historical information that require completion of characterization activities (e.g., radioassay, RTR/VE) before an IDC assignment can be made, temporary IDCs are assigned (i.e., UN 000 - undefined form, UN 00A - undefined homogeneous solids, UN 00B - undefined debris, UN 00C - undefined soil, UN 00D - undefined liquids). These undefined wastes will be assigned the temporary IDC until a determination of the appropriate IDC and WMC is made based on the data and AK. In other cases it may be possible to identify the specific generator and waste form associated with intact containers. Where applicable, wastes with identifiable generator historical information (e.g., IDCs, pack dates) will be included in an appropriate existing waste stream.

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**AMWTP Waste Stream Designations**

For repackaged waste, temporary newly generated IDCs and WMCs will be assigned based on the physical matrix. Characterization activities include, as applicable: AK, radioassay and RTR or VE. The resulting data will be used to determine the appropriate waste stream and WMC.

Waste stream and WMC characterization activities for newly generated waste are outlined in RPT-TRUW-06, AMWTP TRU Waste Management Acceptable Knowledge Elements: AMWTP Baseline AK for Newly Generated Waste. <sup>(79)</sup>

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Table 4. Debris Waste Streams (S5000)

<b>BN WS#</b>	<b>Waste Stream Description</b>	<b>IDC</b>	<b>IDC Description</b>	<b>Site</b>	<b>BIR-ID</b>	<b>WMC</b>
<b>THE FOLLOWING WASTE STREAMS WERE CHARACTERIZED BY THE INL 3,100 m<sup>3</sup> PROJECT</b>						
<b>INW211.001</b>	Filters and Insulation	376	Cemented Insulation and Filter Media	RF	211	S5410
		335	Absolute 8 × 8 Filters	RF	208	
		490	HEPA Filters and CWS Filters	RF	212	
<b>INW252.001</b>	Leaded Rubber Gloves and Aprons	339	Leaded Rubber Gloves and Aprons	RF	252	S5311
<b>INW276.003</b>	Nonmixed Graphite	300	Graphite Molds	RF	276	S5126
		310	Graphite Scarfings	RF	368	
<b>INW276.004</b>	Mixed Graphite	300	Graphite Molds	RF	276	S5126
		301	Graphite Cores	RF	275	
		303	Scarfed Graphite Chunks	RF	369	
		312	Coarse Graphite	RF	272	
<b>INW296</b>	Non Special Source Metals	480	Non-Special Source Metals	RF	296	S5112
		481	Leached Non-Special Source Metals	RF	294	
<b>INW243</b>	Glass	440	Glass	RF	243	S5122
<b>INW247</b>	Raschig Rings	441	Raschig Rings, Unleached	RF	245	S5122
		442	Raschig Rings, Leached	RF	247	
<b>INW169</b>	Combustibles	330	Paper and Rags-Dry	RF	169	S5330
		336	Paper and Rags-Moist	RF	197	
<b>INW198</b>	Plastics	337	Plastics, Teflon, Wash, PVC	RF	198	S5319
<b>INW161</b>	Firebrick/Coarse Brick	371	Fire Brick	RF	161	S5123
		377	Coarse Fire Brick	RF		

**Advanced Mixed Waste Treatment Project**  
**AMWTP Waste Stream Designations**

**Table 4.** (Continued)

BN WS#	Waste Stream Description	IDC	IDC Description	Site	BIR-ID	WMC
THE FOLLOWING DEBRIS WASTE STREAMS ARE BEING CHARACTERIZED BY THE AMWTP for DIRECT SHIPMENT TO WIPP						
<b>BN161</b> (approved) (Ref. 65)	Firebrick Debris	371	Fire Brick	RF	161	S5129
		377	Coarse Fire Brick	RF		
<b>BN203</b>	Combustible	203	Paper, Cloth, Metals, Glass	BC	334	S5490
<b>BN211</b> (approved) (Ref. 57)	Filter Debris Waste	328	Ful-Flo Incinerator Filters	RF	207	S5410
		335	Absolute 8 × 8 Filters	RF	208	
		338	Insulation and CWS Filter Media	RF	209	
		360	Insulation	RF	210	
		376	Cemented Insulation and Filter Media	RF	211	
		490	HEPA Filters and CWS Filters	RF	212	
<b>BN243</b> (approved) (Ref. 59)	Glass	440	Glass	RF	243	S5122
<b>BN252</b> (approved) (Ref. 60)	Leaded Rubber	339	Leaded Rubber Gloves and Aprons	RF	252	S5311
		463	Leaded Rubber Gloves and Aprons	RF	254	
<b>BN296</b> (approved) (Ref. 58)	Non-Special Source Metal	320	Heavy Non-special Source Metal	RF	298	S5112
		321	Lead	RF	300	
		480	Non-special Source Metal	RF	296	
		481	Leached Non-special Source Metal	RF	294	
<b>BN304</b> (approved) (Ref. 63)	Mound Debris	801	Rags, Paper, Wood, etc.	MD	330	S5490
		802	Dry Box Gloves and O-Rings	MD	256	
		803	Metal, Equipment, Pipe, Valves, etc.	MD	280	

**Advanced Mixed Waste Treatment Project**  
**AMWTP Waste Stream Designations**

**Table 4.** (Continued)

BN WS#	Waste Stream Description	IDC	IDC Description	Site	BIR-ID	WMC
		804	Plastic, Tygon, Mani-Boots, etc.	MD	305	
		805	Asbestos Filters	MD	213	
		810	Glass, Flasks, Sample Vials, Etc.	MD	249	
		813	Glass Filters and Fiberglass	MD	214	
		814	Graphite Waste	MD	271	
		825	Equipment Drums, Non-combustible	MD	304	
		827	Equipment Drums, Combustible	MD	204	
		848	LSA <100 nCi/g Non-combustible	MD	329	
<b>ID-RF-S5126 (by CCP)</b> (Ref. 70)	TRU Mixed Graphite Debris	300	Graphite Molds	RF	276	S5126
		301	Graphite Cores		275	
		303	Scarfed Graphite Chunks		369	
		310	Graphite Scarfings		368	
		312	Coarse Graphite		272	
<b>ID-RF-S5100-A (by CCP)</b> (Ref. 69)	Rocky Flats Raschig Rings Stored at the INL	441	Raschig Rings, Unleached	RF	245	S5100
		442	Raschig Rings, Leached		247	
<b>ID-RF-S5300-A (by CCP)</b> (Ref. 71)	RFETS Combustibles and Plastics Stored at INL	330	Paper and Rags-Dry	RF	169	S5300
		336	Paper and Rags-Moist		197	
		337	Plastics, Teflon, Wash, PVC		198	
<b>BN430</b>	Resin Debris Waste	430	Unleached Ion Column Resin	RF	321	S5390
		431	Leached Resin	RF	319	
<b>BN526</b>	Laboratory waste >50% debris	526	Laboratory waste >50% debris	BN		S5490
<b>ID-SD-DEBRIS (CCP)</b>	Debris	705	SDA Heterogeneous Debris	SD		S5400

**Advanced Mixed Waste Treatment Project**  
**AMWTP Waste Stream Designations**

Table 5a. Authorized Supercompactor Feed Stock – Final Form Waste Stream BN510

	Site	IDC	TITLE	WMC	EPA Hazardous Waste Numbers <sup>d</sup>
<b>COMBUSTIBLES</b>	RF	<b>460</b>	Washables, Rubber, Plastic	S5390	F001 and F002
	RF	<b>833</b>	Plastics, TRU Mixed	S5300	F001 and F002
	RF	<b>831</b>	Dry Combustibles	S5300	F001 and F002
	RF	<b>832</b>	Wet Combustibles	S5300	F001 and F002
	RF	<b>337</b>	Plastics, Teflon, Wash, PVC	S5300	D006-D009, D011, D022, F001 – F003 <sup>b</sup> , F005-F007, and F009
	RF	<b>970</b>	Wood	S5320	D008, F001 – F003, and F005
	RF	<b>330</b>	Paper and Rags-Dry	S5300	D006 – D009, D011, D022, F001-F003, F005-F007, and F009
	RF	<b>336</b>	Paper and Rags-Moist	S5300	D002 <sup>f, b</sup> , D006 – D009, D011, D022, F001- F003 <sup>b</sup> , F005-F007, and F009
	RF	<b>900</b>	LSA Paper, Plastics, Etc.	S5390	D004 – D011, D029, F001 – F003 <sup>b</sup> , and F005
	RF	<b>33A<sup>a, j</sup></b>	WETP Bin Program – Combustibles A (IDCs 335, 336, 337 and 339)	S5300	D004 – D011, D022, F001 – F003 <sup>b</sup> , F005-F007, and F009
	RF	<b>33B<sup>a</sup></b>	WETP Bin Program-Combustibles B (IDCs 330, 337, and 339)	S5300	D006 – D008, D011, D022, F001 – F003 <sup>b</sup> , F005-F007, and F009
	RF	<b>302</b>	Benelex and Plexiglas	S5300	D005, D008, and F001
	RF	<b>464</b>	Benelex and Plexiglas	S5300	D005, D008, and F001
	RF	<b>339<sup>a</sup></b>	Leaded Rubber Gloves and Aprons	S5311	D008, D022, D028, D029, F001, F002, F005, F006, F007, and F009 <sup>i, o</sup>
	RF	<b>463</b>	Leaded Rubber Gloves and Aprons	S5311	D008, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
<b>FILTERS</b>	RF	<b>328</b>	Ful-Flo Incinerator Filters	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>335<sup>a</sup></b>	Absolute 8 × 8 Filters	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>338</b>	Insulation and CWS Filter Media	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>360</b>	Insulation	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>376</b>	Cemented Insulation and Filter Media	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>490</b>	HEPA Filters and CWS Filters	S5410	D004- D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
	RF	<b>491</b>	Plenum Prefilters	S5410	F001 and F002

**Advanced Mixed Waste Treatment Project**  
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	Site	IDC	TITLE	WMC	EPA Hazardous Waste Numbers <sup>d</sup>
<b>GRAPHITE</b>	RF	300	Graphite Molds	S5126	D008, D029, D040, F001, F002, F005
	RF	301	Graphite Cores	S5126	D008, D029, D040, F001, F002, F005
	RF	303	Scarfed Graphite Chunks	S5126	D008, D029, D040, F001, F002, F005
	RF	312	Coarse Graphite	S5126	D008, D029, F001, F002, F005
<b>HETEROGENEOUS</b>	BC	201	Non-combustible Solids	S5490	D005 – D009, D011, F001, F002, and F005 <sup>m</sup>
	BC	202	Combustible Solids-Paper/Cloth	S5490	D005-D009, D011, F001, F002, and F005 <sup>m</sup>
	BN	508	AMWTP Newly Generated Debris	S5490	TBD
	MD	801	Rags, Paper, Wood, etc.	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	802	Dry Box Gloves and O-rings	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	803	Metal, Equipment, Pipe, Valves, etc.	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	804	Plastic, Tygon, Mani-Boots, etc.	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	805	Asbestos Filters	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	810	Glass Flasks, Sample Vials, Etc.	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	813	Glass Filters and Fiberglass	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	814	Graphite Waste	S5490 <sup>n</sup>	D004-D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	824	Equipment Boxes, Non-combustible	S5490 <sup>n</sup>	D005-D011
	MD	825	Equipment Drums, Non-combustible	S5490 <sup>n</sup>	D004- D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	826	Equipment Boxes, Combustible	S5490 <sup>n</sup>	D009
	MD	827	Equipment Drums, Combustible	S5490 <sup>n</sup>	D004- D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>
	MD	838	<10 nCi/g Non-combustible	S5490 <sup>n</sup>	TBD
	MD	847	LSA <100 nCi/g Combustible	S5490 <sup>n</sup>	D008 and D009
MD	848	LSA <100 nCi/g Non-combustible	S5490 <sup>n</sup>	D004- D011, D022, D029, F001, F002, F005, F007 and F009 <sup>o</sup>	
RF	374	Blacktop, Concrete, Dirt, and Sand	S5490	D004 – D011, D018, F001 – F003, F005 – F007, and F009	

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	Site	IDC	TITLE	WMC	EPA Hazardous Waste Numbers <sup>d</sup>
	RF	950	LSA Metals, Glass, etc.	S5490	D004-D011, F001, F002, and F005
	RF	960	Concrete; Asphalt, etc.	S5420	D004-D011, F001, F002, F005
<b>INORGANIC NON-METAL DEBRIS</b>	RF	440	Glass	S5122	D005, D008, D009, D022, D028, D029, F001, F002, and F005 <sup>o</sup>
	RF	441	Raschig Rings, Unleached	S5100	D002 <sup>g, b</sup> , D008, D022, F001, and F002
	RF	442	Raschig Rings, Leached	S5100	D008, F001, and F002
	RF	44A <sup>j,k</sup>	WETP Bin Program – Glass (IDCs 440 and 442)	S5122	D005, D008, D009, F001, F002, and F005
	RF	368	Magnesium Oxide Crucibles	S5190	None
	RF	370	Leco Crucibles	S5190	None
	RF	371	Fire Brick	S5123	D004-D011, D022, D028, D029, F001, F002, F005 <sup>h, o</sup>
	RF	377	Coarse Fire Brick	S5123	D004-D011, D022, D028, D029, F001, F002 and F005 <sup>h, o</sup>
	RF	391	Crucibles and Sand	S5190	None
	RF	392	Sand, Slag, and Crucible	S5190	None
	RF	488	Glovebox Parts w/Lead	S5112	D008
	<b>UNCATORIZED METAL</b>	RF	320	Heavy Non-special Source Metal	S5112
RF		321	Lead	S5119	D004-D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
RF		416	Zinc Magnesium Alloy Metals	S5111	None
RF		480	Non-special Source Scrap Metal	S5112	D004-D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
RF		481	Leached Non-special Source Metal	S5112	D004-D011, D022, D028, D029, F001, F002, F005, F006, F007 and F009 <sup>o</sup>
RF		488	Glovebox Parts w/Lead	S5112	D008
RF		48A <sup>l</sup>	WETP Bin Program – Metal (IDCs 480 and 481)	S5112	D004-D011, D028, F001-F003 <sup>b</sup> , F005-F007, and F009
SD		705	SDA debris	S5490	TBD

**Advanced Mixed Waste Treatment Project**  
**AMWTP Waste Stream Designations**

Table 5b. Potential Supercompactor Feed Stock – Final Form Waste Stream BN510

	Site IDC	TITLE	WMC	EPA Hazardous Waste Numbers <sup>d</sup>
<b>COMBUSTIBLES</b>	RF 430	Unleached Ion Column Resin	S5390	TBD
	RF 431	Leached Resin	S5390	TBD
<b>GRAPHITE</b>	RF 310	Graphite Scarfings	S5126	None
<b>HETEROGENEOUS</b>	RF 241	Americium Process Residue	S5420	D008, F002, and F003 <sup>b</sup>
	RF 372	Grit	S5490	D007
	RF 750	Pits 11 and 12 Debris	S5490	TBD
	RL 710	BWD	S5490	F001, F002, F003 <sup>b</sup> , F005, D005, D006, D007, D008, D009 and D011
	RL 711	PUREXD	S5490	D005, D006, D008, D009 and D011
	RL 712	PFPD	S5490	D004-D011, D019, D030
	RL 713	SCD	S5490	D004-D011, D018, D019, D022, D027, D028, D029, D030, D034, D037, D043, F001, F002, F003 <sup>b</sup> , F004 and F005

- a. EDF-RWMC-803 indicates that D001 is applicable to these IDCs. Based on some additional research and evaluation, D001 is not an applicable HWN for RF IDCs 33A, 33B, 335, and 339. See Discrepancy Report D005A for further information.
- b. Based on AK documentation, 40 CFR 261.4 exclusions for F003 waste and the type of process generating the final waste form (i.e., BN 510); the final waste form will not exhibit the characteristic of ignitability or corrosivity and therefore will not carry the F003, D001 and D002 HWNs.
- c. All sources of PCB contamination will be removed from this waste prior to supercompaction.
- d. The EPA HWNs in this table are the ones identified in EDF-RWMC-803, Rev. 7, but are subject to change based on AK and sampling.
- e. According to the AK record, this waste may contain compressed gases or compounds that are ignitable. Containers discovered to contain compressed gases or compounds that meet the definition of ignitability are assigned D001. See Discrepancy Report D013A for further information.
- f. According to the INL WSPF, D002 is not assigned to inventory that is WIPP CH-WAC compliant. The WSPF determination regarding corrosivity does not apply to waste containing excess liquids; D002 is still applicable to containers that contain excess free liquids. See Discrepancy Report D014A (IDC RF 440) and D016A (IDC RF 336) for further information.
- g. According to AK documentation, this waste may contain excess liquids that are potentially corrosive. Therefore, containers that contain excess liquids are assigned D002. See Discrepancy Report D015A for further information.
- h. An INL WSPF for this waste stream was approved by CBFO. In addition to the generator-assigned HWNs listed in EDF-RWMC-803, F006, F007 and F009 were assigned to this waste. See Discrepancy Report D009A and D043A for further information.
- i. An INL WSPF for this waste stream was approved by CBFO. In addition to the generator-assigned HWNs listed in EDF-RWMC-803, F003, F006, F007 and F009 were assigned to this waste. See Discrepancy Report D008A for further information.
- j. EDF-RWMC-803 indicates that D002 is applicable to these IDCs when liquids are present. Further evaluation indicates the waste does not contain liquids. Therefore, D002 will not be assigned. See Discrepancy Report D017A for further information.

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- k. EDF-RWMC-803 indicates that D001 is applicable to this IDC due to the potential presence of cyclohexane in glass waste (IDC RF 440). Glass was characterized under INL WSPF INW243.001 and determined to not meet the definition of ignitability. Therefore, D001 will not be assigned to this waste. See Discrepancy Report D017A for further information.
- l. EDF-RWMC-803 indicates that D001 is assigned to this waste. After further evaluation, it has been determined that this waste does not contain any materials that meet the definition of ignitability. Therefore, D001 will not be assigned to IDC RF 48A. See Discrepancy Report D018A for further information.
- m. Hazardous waste numbers assigned to this IDC are based on AK described in the Battelle-Columbus Building JN-4 Plutonium Laboratory Acceptable Knowledge Document, AMWTP-RPT-TRUW-04. See Discrepancy Report D020A for further information.
- n. Due to a number of Mound debris waste containers that contained a mixture of debris wastes and therefore were not in agreement regarding the WMC for the IDC assigned, it was determined that because of the waste generating process (D&D), a more general WMC was more applicable and the WMCs for the MD wastes were changed.
- o. Hazardous waste numbers are based on current approved CBFO WSP for this IDC.

Table 6. Supercompacted Waste Stream

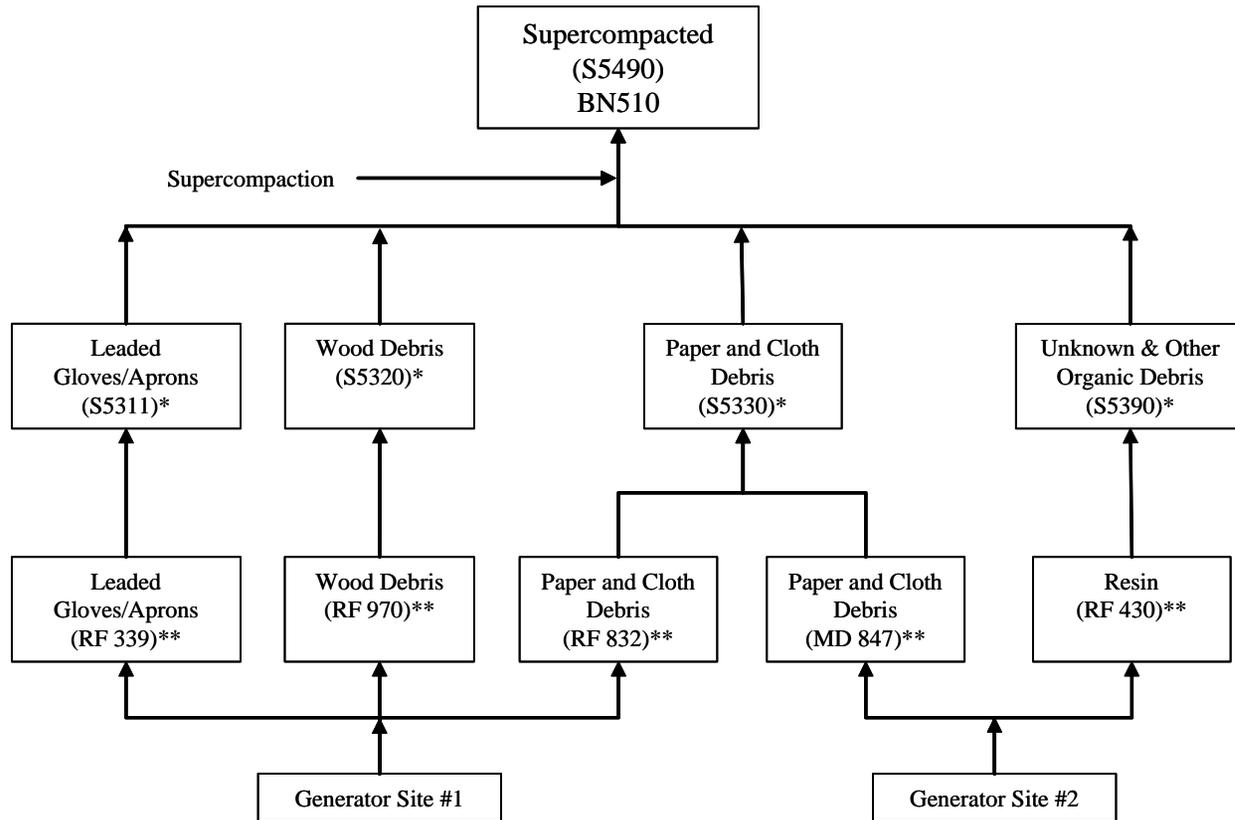
WSP	IDC	Waste Stream and IDC Description	Site	BIR-ID	WMC
<b>BN510</b> (approved) <sup>a</sup>	<b>510</b>	Supercompacted Debris	BN	N/A	S5490
a. From WSPF BN510.001 <sup>(56)</sup>					

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**WIPP Waste Stream Profile**

**Example Assignment of WMCs**

**Generator Identified Waste**



\* Waste Matrix Code  
\*\* Individual Item Description Code

Figure 3. Example of the delineation scheme for supercompacted waste stream.

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## **8.0 AMWTP FACILITY GENERATED WASTE (DERIVED WASTE)**

Waste will be generated at the AMWTP facility during retrieval operations, drum handling, sample collection, sample analysis, and repackaging. The types of wastes expected are soil, wood, plastics, asphalt, metals, and miscellaneous debris and solid waste (e.g., rags, paper, personnel protective equipment [PPE], empty drums and boxes, filters, absorbents, glass, and solidified liquids). The wastes may be clean (e.g., activity less than or equal to background radioactivity), hazardous (Haz), LLW, MLLW, TRU, or MTRU waste (see Table 7).

Facility generated TRU waste with any detectable level of the ten WIPP- tracked TRU radionuclides will be profiled in an appropriate waste stream profile and shipped to WIPP for disposal. The IDCs in the final column of Table 7 will be assigned only to containers that will be disposed of at WIPP (i.e., TRU wastes).

Hazardous/radioactive waste determinations and final IDCs will be made for all non-WIPP wastes based on facility specific waste acceptance criteria and physical form prior to shipment (e.g., LLW soil disposed of at RWMC or at the Nevada Test Site and are assigned a BN 625 IDC).

TRU Waste generated as a result of waste container handling and processing activities (e.g., PPE, rags, wipes, sampling equipment, or other equipment) is termed “derived” waste similar to that generated at WIPP (WAP section B-1e). Typically derived wastes flow diagram is provided in Figure 4.

Secondary waste generated as a result of handling leaking containers of the RF organic sludge (IDC 003) or spills of PCB containing wastes is evaluated and segregated from other secondary waste for appropriate management and dispositioning.

Solidified liquid wastes from sample preparation, handling, and analysis will be deemed to be newly generated wastes. Due to the potential of added hazardous constituents inherent in laboratory analytical techniques these wastes will be segregated from the parent waste streams, characterized, and profiled in a separate document to eliminate potential cross contamination and the potential need to revise waste stream profiles for the addition of laboratory solvents/chemicals.

Because untreated repackaged waste does not result in the addition of hazardous waste constituents, untreated repackaged waste will be considered newly generated waste and carry the EPA HWNs assigned to the parent waste stream. Treated repackaged waste will have HWNs evaluated on a case-by-case basis.

The final waste forms will be characterized in compliance with RCRA regulations and applicable WAP requirements. Characterization will include, as applicable, radioassay, RTR or VE, HSG or core sampling for all drums to be shipped for disposal.

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Table 7. Anticipated Facility Generated Waste

Location, Description	Comments	Designation <sup>a</sup>	IDC
<b>Retrieval</b>			
1. Soil		S	501
2. Wood (plywood, timber)		C	508/701 <sup>b</sup>
3. Plastic	PPE	C	508/701 <sup>b</sup>
4. Asphalt		C	508/701 <sup>b</sup>
5. Metal	Equipment/tools	C	508/701 <sup>b</sup>
6. Combustibles (rags, paper)	PPE	C	508/701 <sup>b</sup>
7. Filters	HEPA	C	508/701 <sup>b</sup>
8. Fiberglass/Cloth	Baghouse Bags	C	508/701 <sup>b</sup>
<b>Type II Storage</b>			
1. Combustibles (rags, paper)	PPE	C	508/701 <sup>b</sup>
2. Filters	HEPA	C	508/701 <sup>b</sup>
<b>Characterization Facility (WMF-634)</b>			
1. Combustibles (rags, paper)	PPE	C	508
2. Inorganic Homogeneous Solids		S	505
3. Organic Homogeneous Solids		S	511
4. Core equipment (metal)		C	508
5. Plastic liners		C	508
6. Plastics	PPE	C	508
7. Filters	HEPA	C	508
8. Combustibles	TSCA/PCB	SCW	604
9. Absorbed liquids	TSCA/PCB	SCW	605
<b>AMWTF</b>			
1. Combustibles (rags, paper)		C	508
2. Wood boxes and lids	RCRA empty	C	508/701 <sup>b</sup>
3. Metal boxes and lids	RCRA empty	C	508/701 <sup>b</sup>
4. Metal drums	RCRA empty	C	508/701 <sup>b</sup>
5. Metal equipment (manip.)		C	508/701 <sup>b</sup>
6. Filters		C	508/701 <sup>b</sup>
7. Absorbed aqueous liquids		S	507
8. Miscellaneous debris		C	508/701 <sup>b</sup>
9. Plastics (liners and bags)		C	508/701 <sup>b</sup>

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Location, Description	Comments	Designation <sup>a</sup>	IDC
10. Absorbed organic liquids (from waste and equipment)		S	509
<b>WMF-635</b>			
1. Combustibles (rags, paper)	PPE	C	508
2. Plastics	PPE	C	508
3. Drum Filters		C	508
4. Metal	Tools	C	508
<b>INL Laboratory generated waste</b>			
1. Glass (lab and sample jars)	RCRA empty	C	508/701 <sup>b</sup>
2. Laboratory waste >50% debris		C	526
3. Absorbed/Solidified Analytical Wastes <50% debris	Generated by laboratory during analysis	S	603

a. Designation of waste into compactable (C), solid (S), or special-case waste (SCW) waste streams.

b. IDC BN 701 is mixed low-level waste.

**Advanced Mixed Waste Treatment Project  
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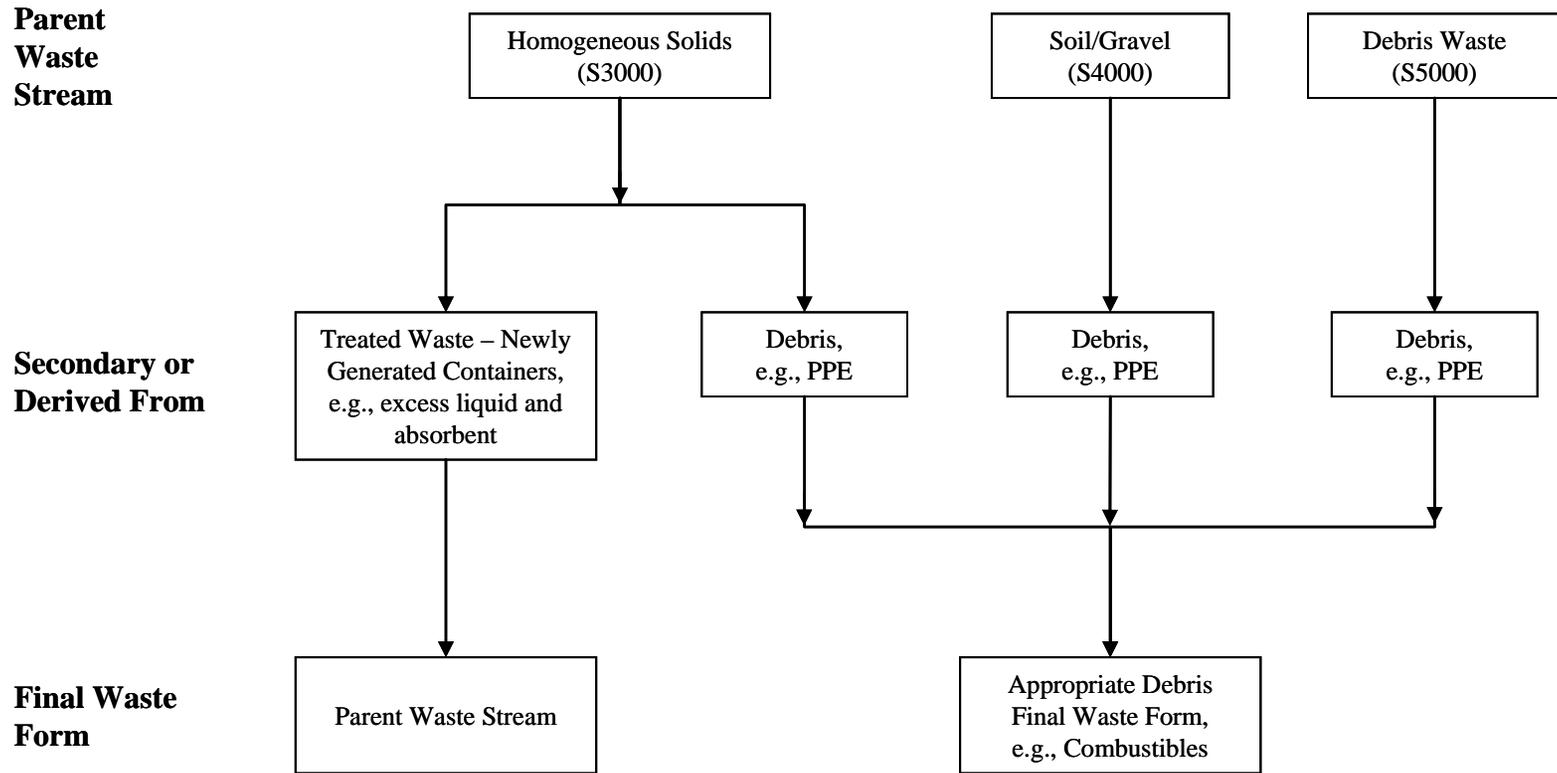


Figure 4. Derived waste.

***Advanced Mixed Waste Treatment Project***  
**AMWTP Waste Stream Designations**

## 9.0 SUMMARY

All waste managed by the AMWTP will be assigned summary category groups which can be further grouped into WMC groups and WMCs based on the physical form of the waste.

Waste that is designated for shipment to WIPP will be grouped into waste streams based on generation process, final physical form, and hazardous constituents.

The AMWTP will group homogeneous solid and debris wastes into previously identified waste streams, if applicable, or develop additional hazardous waste profiles.

HWN assignments for waste streams will be based on initial AK characterization and subsequent applicable characterization data (e.g., RTR/VE, HSG or core sampling results).

AMWTP concurs with the designation and determinations for the homogeneous solid and debris waste streams as characterized previously by the INL 3,100 m<sup>3</sup> Project and approved by CBFO.

There will be a single supercompacted TRU waste stream (e.g., BN510) designated with WMC S5490, Unknown/Other Heterogeneous Debris. The HWNs assigned to this waste stream will be an accumulation of all of the HWNs that are applicable to the feed streams into the supercompactor.

EPA HWNs will be applied across all derived wastes in accordance with AK and identified by sampling and analysis of HSG or solid samples, as applicable for the final waste form.

Newly generated TRU waste will be characterized using established techniques. Newly generated wastes are assigned IDCs as appropriate and are included into applicable WSPFs (e.g., IDC BN 508 is assigned for AMWTP Newly Generated Debris and can be included into the BN510 approved WSPF for supercompacted debris waste).<sup>(79)</sup>

Facility generated waste will be dispositioned newly generated waste within an existing WSPF or within a new WSPF.

***Advanced Mixed Waste Treatment Project***  
**AMWTP Waste Stream Designations**

**10.0 REFERENCES**

1. Drum Headspace Gas Analysis at INEEL conducted for the Transuranic Waste Characterization Program, dated February 5, 1997. This information can be found in the WIPP Experimental Test Program Office, TRU Waste Programs Unit, INEEL
2. S. A. Anderson letter to S. Marcia Caregeorges (Benchmark Environmental Corporation), SAA-004-01, RCRA Part B Permit Information on Rocky Flats Waste, EG&G Rocky Flats, May 1, 1991
3. D.E. Kudera, Hazardous Waste Constituents of INEL Contact-Handled Stored TRU Waste, EG&G Idaho, Inc., EDF-RWMC-0369, May 1989
4. J.K. Paynter (Rocky Flats Plant), letter to distribution, Hazardous Constituents of Rocky Flats Transuranic Waste, WCP02-31, May 23, 1989
5. DOE/WIPP 89-003, Waste Isolation Pilot Plant, No-Migration Variance Petition, U.S. Department of Energy, March 1990
6. C. K. Gaddis letter to R.D. Falconer (EG&G Idaho, Inc.), Transuranic Waste Characterization Questionnaire, Pittsburgh Naval Reactors Office, May 17, 1993
7. T.L. Clements, Jr., Content Code Assessments for the INEL Contact-Handled Stored Transuranic Wastes, WM-F1-82-021, October 1982
8. T.L. Clements, Jr., Idaho National Engineering Laboratory Stored Transuranic Waste Characterization: Nonradiological Hazards Identification, WM-F1-81-015, September 1981
9. T.L. Clements, Jr. and D.E. Kudera, TRU Waste Sampling Program: Volume 1 - Waste Characterization, EG&G Idaho, Inc., EGG-WM-6503, September 1985
10. W. M. Heilesen, Argonne National Laboratory-East Remote-Handled Waste, EG&G Idaho EDF-RWMC-759, August 1994
11. INEL-95/0281, Idaho National Engineering Laboratory Code Assessment of the Rocky Flats Transuranic Waste, Prepared for Lockheed Martin Idaho Technologies, WASTREN, Inc., July 1995
12. Solid Sample Analysis at INEEL conducted for the Transuranic Waste Characterization Program, dated November 13 and 14, 1996. This information can be found in the 3,100 m<sup>3</sup> Project Files, TRU Waste Department, INEEL
13. EG&G Rocky Flats Environmental Technology Site, Backlog Waste Reassessment Baseline Book, EG&G Rocky Flats, Inc., January 4, 1996
14. R.D. Falconer, EPA Hazardous Waste Codes Found in INEL Stored TRU Waste Content Codes, EG&G Idaho, Inc., -RWMC-421, Revision 2, June 30, 1993

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15. CAO-94-1005, Waste Isolation Pilot Plant Transuranic Waste Baseline Inventory Report, U.S. Department of Energy, February 1995
16. U.S. Code of Federal Regulations, Title 40, Environmental Protection Agency, Part 261, Identification and Listing of Hazardous Waste
17. DOE/WIPP 91-005, , WIPP RCRA Part B Permit Application, Appendix C9, TRU Waste Characterization Using Acceptable Knowledge, U.S. Department of Energy, April 1996 (obsolete)
18. CAO-94-1010, Transuranic Waste Characterization Quality Assurance Program Plan, U.S. Department of Energy, April 30, 1995
19. R.L. Parks, Material and Waste Characterization, INEL Form L-0669, Miscellaneous items including plastics, paper products, cloth, rubber, and metal, ANL-W, HFEF-WCA, December 21, 1995
20. D.A. Peterson, Waste Characterization Study on Greater Than Class "C" Radioactive Waste from the Monsanto-Dayton Laboratory, WM-PD-88-008, January 1989
21. DOE/WIPP-02-3122, Contact-Handled Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant
22. EDF-RWMC-332, D.R. Wilkinson, TRU Waste Assessment (for the J.C. Haynes TRU Waste Classification), August 1988
23. EDF-RWMC-452, J.D. Wells, Retrieval and Disposition of United States Americium from Mexico, March 1991
24. ID4890008952, AMWTP HWMA/RCRA Storage Permit
25. DOE/WIPP 89-004, CH-TRU Waste Content Codes (CH-TRUCON), U.S. Department of Energy, June 2006
26. WASTREN, Inc., Acceptable Knowledge Document for INEL Stored Transuranic Waste - Rocky Flats Plant Waste, Prepared for Lockheed Martin Idaho Technologies Co., INEEL-96/0280, October 1996
27. Kudera, D.E. and M.S. DeHaan, Disagreement with the Assignment of EPA Hazardous Waste Numbers by the Acceptable Knowledge Document, INEL 96/0280, EDF-RWMC-942, Rev. 0, July 1997
28. INEEL/EXT-99-00575, Characterization Plan for Existing Contact-Handled Waste Containers of Unknowns in RWMC HWMA/RCRA Permitted Storage Inventory, Bechtel BWXT Idaho, LLC., August 2000
29. LMITCO, EDF-RWMC-1048, Characterization of Wastes Generated at Argonne National Laboratory-West with IDCs of 161, 162, and 163, INEEL/INT-99-00081, Rev. 6, August 1998

***Advanced Mixed Waste Treatment Project***  
**AMWTP Waste Stream Designations**

30. LMITCO, Chemical Constituents in Transuranic Storage Area (TSA) Waste, EDF RWMC-803, Rev. 7, April, 1998
31. Atwood, C.L., Statistical Sampling Plan for Verifying Characterization of Drums with “Unknown” Contents, EDF RWMC-1051, Rev. D, March, 1999
32. LMITCO, EDF-RWMC-1062, Characterization of Wastes Generated at Mound Laboratory with IDCs of 825, 847, and 848, INEEL/INT-99-00226, Rev. 6, August 1998
33. LMITCO, EDF-RWMC-1043, Characterization of Wastes Used in the 1991 through 1993 SWEPP Certified Waste Sampling Program, INEEL/INT-98-01210, Rev. 6, August 1998
34. Bechtel BWXT Idaho, LLC, EDF-RWMC-1180, Waste Stream Profile Form, and Associated Evaluations for IDC 300. Rev 1., April 18, 2000
35. State of New Mexico, Hazardous Waste Facility Permit issued to Waste Isolation Pilot Plant EPA No. NM4890139088, issued October 27, 1999
36. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW276.003. Graphite
37. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW276.004. Graphite
38. Bechtel BWXT Idaho, LLC, Characterization of Containers with Unknowns through Expert Committee Consensus, EDF RWMC-1579, Rev. 0, September 2000
39. Bechtel BWXT Idaho, LLC, Characterization of Containers with Unknowns – Phase IV, EDF RWMC-1615, Rev. 0, September 2000
40. Bechtel BWXT Idaho, LLC, Characterization of Containers with Unknowns – Remnant Containers, EDF RWMC-1776, Rev. 0, December 2000
41. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW247.001R1. Raschig Rings
42. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW216.001. First/Second Stage Sludge
43. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW218.001. Building 374 Sludge
44. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW222.001. Miscellaneous Cemented Sludges
45. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW296.001. Non-special Source Metals
46. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW243.001. Glass (except Raschig Rings)
47. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW169.001. Combustibles
48. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW198.001. Plastics

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49. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW211.001. Filters and Insulation
50. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW161.001. Fire Brick/Coarse Fire Brick
51. Bechtel BWXT Idaho, LLC, Waste Stream Profile Form, INW252.001. Leaded Rubber Gloves and Aprons
52. Bechtel BWXT Idaho, LLC, Acceptable Knowledge (AK) Final Evaluation Checklist. INW252.001 Leaded Rubber Gloves and Aprons
53. Bechtel BWXT Idaho, LLC, Acceptable Knowledge (AK) Final Evaluation Checklist. INW161.001 Fire Brick
54. Bechtel BWXT Idaho, LLC, EDF-2719, Dataload from TRIPS to IWTS
55. Waste Stream Profile Form, BN835, Solidified Acid/Caustic Waste
56. Waste Stream Profile Form, BN510, Supercompacted Debris Waste
57. Waste Stream Profile Form, BN211, Filter Debris Waste
58. Waste Stream Profile Form, BN296, Non-Special Source Metal
59. Waste Stream Profile Form, BN243, Glass Debris Waste
60. Waste Stream Profile Form, BN252, Leaded Rubber Debris Waste
61. Waste Stream Profile Form, RF107.01, TRM Solidified Inorganic Waste
62. Waste Stream Profile Form RF139.01, Solid Cemented Sludge
63. Waste Stream Profile Form BN304, Mound Debris Waste
64. Discrepancy Report D046A – Assessment of hazardous waste numbers assigned to RF-IDs: 430, 431, 432 and 822 wastes [D046A]
65. Waste Stream Profile Form BN161, Firebrick Debris Waste
66. Waste Stream Profile Form BN004, Special Setups Waste
67. Waste Stream Profile Form ID-RF-S3114, Organic Setups, 1/24/06; CCP-AK-INL-005, Central Characterization Project Acceptable Knowledge Summary Report for Rocky Flats Immobilized Organic Liquids Stored at the Idaho National Laboratory, Waste Streams ID-RF-S3114 and ID-RF-S3150-A, Rev. 1, January 4, 2006

**Advanced Mixed Waste Treatment Project**  
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68. Waste Stream Profile Form ID-RF-S3150, Organic and Sludge Immobilization System Waste, 1/6/06; CCP-AK-INL-005, Central Characterization Project Acceptable Knowledge Summary Report for Rocky Flats Immobilized Organic Liquids Stored at the Idaho National Laboratory, Waste Streams ID-RF-S3114 and ID-RF-S3150-A, Rev. 1, January 4, 2006
69. Waste Stream Profile Form ID-RF-S5100-A, Rocky Flats Raschig Rings Stored at the INL, 11/18/05, CCP-AK-INL-006, Central Characterization Project Acceptable Knowledge Summary Report for Rocky Flats Raschig Rings Stored at the Idaho National Laboratory, Waste Stream ID-RF-S5100-A, Rev. 1, October 20, 2005
70. Waste Stream Profile Form ID-RF-S5126, TRU Mixed Graphite Debris, 11/15/05, CCP-AK-INL-002, Central Characterization Project Acceptable Knowledge Summary Report for the Idaho National Laboratory Rocky Flats Transuranic Graphite Debris Waste Stream: ID-RF-S5126, Rev. 2, October 20, 2005
71. Waste Stream Profile Form ID-RF-S5300, RFETS Combustibles and Plastics Stored at the INL, 11/18/05; CCP-AK-INL-004, Central Characterization Project Acceptable Knowledge Summary Report for Rocky Flats Combustibles and Plastic Stored at the Idaho National Laboratory, Waste Stream ID-RF-S5300-A, Rev. 1, October 6, 2005
72. RPT-TRUW-58, Acceptable Knowledge for INL Stored Transuranic Waste – Sample Returns
73. DOE/NE-ID-11178, Removal Action Plan for the Accelerated Retrieval Project for a Described Area within Pit 4, August 2005
74. CCP-AK-INL-001, Central Characterization Project Acceptable Knowledge Summary Report, for Waste Retrieved from Designated Areas Within the Subsurface Disposal Area at the Idaho National Laboratory, Rev. 2, March 20, 2005
75. NM4890139088-TSDF, Waste Analysis Plan (WIPP WAP), Attachment B to WIPP Hazardous Waste Facility Permit
76. DOE/LLW-217, DOE Waste Treatability Group Guidance, Rev. 0, January 1995
77. DOE/CAO-95-1121, Transuranic Waste Baseline Inventory Report
78. Federal Facilities Compliance Act of 1992, Public Law No. 102-386, October 6, 1992
79. RPT-TRUW-06, AMWTP TRU Waste Management Acceptable Knowledge Elements: AMWTP Baseline AK for Newly Generated Waste
80. Waste Stream Profile Form BN836, Cemented Sludge Waste Stream Profile Package
81. Waste Stream Profile Form BNINW216, First/Second Stage Sludge
82. Waste Stream Profile Form BNINW218, Building 374 Sludge
83. Large PCB Items Found in Box of IDC RF 480 [AKR-06-380]

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84. Acceptable Knowledge Document for Babcock and Wilcox Parks Township Site Plutonium Facility Debris Waste Stream RLCBWE, HNF-28620 [P658A]
85. WSPF RLMPURX.001; Acceptable Knowledge Document for Plutonium Uranium Extraction Plant Mixed Debris Waste Stream MPUREXD, HNF-7355 [P659A]
86. WSPF RLMPD ; HNF-6489, Revision 1, Acceptable Knowledge Document for Plutonium Finishing Plant Mixed Debris Waste Stream, MPFPD [P660A]
87. Central Characterization Project Waste Stream Profile Form; Waste Stream Profile Number ID-SDA-DEBRIS [P661A]

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**Appendix A**

**Wastes Not Currently Included  
in AMWTP Scope for WIPP Disposal**

**Advanced Mixed Waste Treatment Project**  
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**Appendix A**  
**Wastes Not Currently Included**  
**in AMWTP Scope for WIPP Disposal**

The following table lists wastes that AMWTP will store and manage, but that are not currently being targeted for disposal at WIPP by AMWTP. The information used to prepare this table came from EDF-RWMC-803,<sup>(30)</sup> the Transuranic Waste Baseline Inventory Report,<sup>(77)</sup> and the AMWTP HWMA/RCRA Storage Permit and the AMWTP LLW/MLLW program.<sup>(24)</sup> The abbreviations for generator sites and areas are listed in Table B-2.

Site	Area	IDC	WMC	Waste Description
AE	AE	100	S5000	General Plant Waste
AE	AE	101	S5100	Cut Up Gloveboxes
AE	AE	102	S3113	Absorbed Liquids
AE	AE	104	S5400	Alpha Hot Cell Waste
AE	AE	105	S5000	Empty Bottles and Absorbent
AE	AE	106	S9000	Special Source Material (UNK)
AE	AE	107	S9000	RH Waste
AE	AE	110	S5440	Research Generated Waste
AE	AE	111	S3150	Solidified Wet Sludge
AE	AE	120	S5440	D and D Waste Comp. and Comb. Solids
AE	AE	121	S5390	TRU Organic Solid Waste
BL	BL	010	S5390	Rags, gloves, poly
BL	BL	012	S9000	Miscellaneous Sources
BL	BL	015	S9000	Neutron Sources
BL	BL	020	S5420	Non-compressible, non-combustible
BL	BL	030	S3129	Solidified Grinding Sludge
BL	BL	040	S9000	Solids binary scrap powder
BL	BL	050	S3113	Solidified solutions
BL	BL	081	X7900	Metal Samples Fissile
BL	BL	338	X7211	RWMC Lead Shielded Overpack Empty
BN	BN	530	N/A	Mixed low-level aqueous liquid
BN	BN	535	N/A	Mixed low-level Organic Liquids

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Site	Area	IDC	WMC	Waste Description
BN	BN	607	N/A	First/Second Stage Sludge Liquid
BN	BN	608	N/A	Special Setups liquid
BN	BN	609	N/A	Building 374 Sludge Liquid
BN	BN	610	N/A	Miscellaneous Cemented Sludge Liquid
BN	BN	611	N/A	Sewage Pond Sludge Liquid
BN	BN	612	N/A	Caustic Waste Liquid
BN	BN	613	N/A	Acid Waste Liquid
BN	BN	614	N/A	Cemented Sludge Liquid
BN	BN	615	N/A	OASIS Waste Liquid
BN	BN	616	N/A	Organic Setups PCB Liquid
BN	BN	617	N/A	Solidified Solutions Liquid
BN	BN	618	N/A	MLLW Homogeneous Solids
BN	BN	619	N/A	LLW Debris and Non-debris
BN	BN	620	N/A	MLLW debris
BN	BN	621	N/A	MLLW PCB Debris
BN	BN	625	N/A	LLW soil
BN	BN	622	N/A	MLLW PCB Non-Debris
BN	BN	623	N/A	MLLW Aerosol Can & Gas Cylinders With Content Present
BN	BN	624	N/A	MLLW Empty Aerosol Can & Empty Gas Cylinders
BN	BN	626	N/A	MLLW Soil
BN	BN	627	N/A	MLLW PCB Soil
BN	BN	628	N/A	MLLW PCB Combustible Liquid
BN	BN	629	N/A	MLLW PCB Non-Combustible Liquid
BN	BN	630	N/A	MLLW Lead Acid Batteries
BN	BN	701	S5490	MLLW Supercompacted Debris
BW	BW	515	S5000	Plastic, paper, cloth etc.
BW	BW	516	S5000	Steel, Al, Electrical Devices-Handheld

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Site	Area	IDC	WMC	Waste Description
BW	BW	517	S5000	Heavy Metals, Steel, Al, Brass
ID	AW	160	S5490	ANL-W HFEF Analytical Combustibles
ID	AW	161	S5000	ACL Glassware, Paper, Poly, and Misc.
ID	AW	162	S5490	ANL-W FMF EFL Zr-U-Pu Fuel Cast.
ID	AW	163	S5490	ANL-W ACL Cold-Line Ab. Liq. and Debris
ID	AW	164	S5000	WETP Process Waste
ID	IA	157	S9000	Miscellaneous Sources
ID	IC	021	S5000	Radioactive Mixed Lead Waste
ID	IC	150	S5000	Laboratory Waste
ID	IC	151		Solidified Fuel Sludge
ID	IC	152		Pu Neutron Sources
ID	IC	156		Chem. Cell Rip-out (UNK)
ID	IC	157		Miscellaneous Sources
ID	IC	601	S5400	Alpha Low-Level Lab. WIPP Analytical Waste
ID	IF	150	S5000	Laboratory Waste
ID	IF	157	S9000	Miscellaneous Sources
ID	IN	021	S5000	Radioactive Mixed Lead Waste
ID	IN	152	S5000	Pu Neutron Sources
ID	IN	153	S5440	Combustible Lab Waste
ID	IN	155	S5000	TRU Scrap
ID	IR	021	S5000	Radioactive Mixed Lead Waste
ID	IR	150	S5000	Laboratory Waste
ID	IR	151	S3000	Solidified Fuel Sludge
ID	IR	154	S5190	Sample Fuel
ID	IR	155	S5000	TRU Scrap
ID	IR	157	S9000	Miscellaneous Sources
ID	IT	021	S5000	Radioactive Mixed Lead Waste
ID	IT	152	S5000	Pu Neutron Sources
ID	IT	157	S9000	Miscellaneous Sources

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Site	Area	IDC	WMC	Waste Description
ID	IT	175	S5000	DRCT Scrap Metal Waste From TAN
ID	IW	005	S3143	Evaporator Salts - Retrieved RF TRU
ID	IW	021	S5000	Radioactive Mixed Lead Waste
ID	IW	155	S5000	TRU Scrap
ID	IW	157	S9000	Miscellaneous Sources
ID	IW	337	S5300	Plastics, Teflon, Wash, PVC, Ret. RF TR
ID	SDA	706	S4000	Soil <sup>a</sup>
ID	SDA	704	S4000	Homogeneous Solids <sup>a</sup>
ID	SDA	705	S4000	Heterogeneous Debris <sup>a</sup>
JH	JH	826	S5000	Combustible Equip Boxes and Floor Swp.
JH	JH	827	S5000	Solid Trash and Dry Lab Material
MD	MD	815	S9000	Classified Parts
MO	MO	530	S5000	Compacted Waste
MO	MO	535	S5000	Compacted Waste/Lead
MO	MO	540	S5000	Non-Compacted Waste
MO	MO	545	S5000	WEP Shielded Waste
MO	MO	550	S3000	Solidified Oil
MX	MX	142	S5000	Scrap Processing Equipment
RF	RF	751	S3000	Pits 11 & 12 Roaster Oxide (not acceptable at WIPP if reactive)
RL	BWD	710	S5000	Hanford Babcox & Wilcox Debris
RL	PUREX	711	S5000	Hanford PUREX Plant Debris
RL	PFPD	712	S5000	Hanford PFP Debris
RL	SCD	713	S5000	Hanford Site Complex Debris

a. These INL wastes are only managed by the AMWTP for purposes of shipment to WIPP. They are not generated or treated at the AMWTP.

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**Appendix B**

**Chemical Constituents Identified in TSA Waste**

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## **Appendix B**

### **Chemical Constituents Identified in TSA Waste**

Information regarding wastes in RWMC TSA accessible storage is provided in this appendix. Initial INEL characterization information and the chemical constituents identified in Table B-1 were taken from EDF-RWMC-803.<sup>(30)</sup> The seven revisions of EDF-RWMC-803 as well as other sources of information (e.g., AMWTP characterization results) are included in Table B-1, as applicable, to ensure up-to-date reflection of hazardous constituents and applicable HWNs.

The wastes are listed in Table B-1 by generator and IDC. The abbreviations for generator sites and areas are listed in Table B-2. A brief waste description, the chemical constituents identified and their related Chemical Abstract Service (CAS) numbers are tabulated in columns 3, 4, and 5. EPA HWNs are presented in columns 6, 7, and 8. The “INL POTENTIAL HWN” column contains the EPA HWNs identified by the INL as codes that may or may not be confirmed during characterization activities; the “GEN HWN” column contains the HWNs originally assigned by the waste generator; and the “WIPP WSPF HWN” column contains HWNs assigned in pending or WIPP-approved WSPFs for wastes disposed of at the WIPP. The HWNs assigned for WIPP disposal pertain only to those containers certified for WIPP disposal. The type of waste characterization information and reference number of the source document are listed in columns 9 and 10, respectively. Source documents are listed by number in Section 10.0, References.

The types of information used to characterize the wastes are referenced in this table and consist of information supplied by waste generators (WG), process knowledge (PK), acceptable knowledge (AK), and sampling and analysis results for HSG and, in some cases, solid samples (SS) collected from more than 23,000 drums. The majority of the potential HWNs (column 6) were identified based solely on PK information provided by the generator(s). These assignments have not been confirmed by the waste generator(s) and additional characterization may be needed to determine their final appropriateness.

Headspace gas sampling results indicate the presence of VOCs but do not necessarily yield information on actual constituent concentrations in the waste or source of the constituent. HWN assignments were made based on HSG data for WIPP-approved waste streams in compliance with WIPP WAP requirements. However, assignments of HWNs will not be based solely on HSG information for the purposes of transportation, treatment, or storage of wastes not destined for WIPP disposal. Chemical constituents detected above program required quantitation limits (PRQL) during the HSG sampling and analyses from the 1985 TRU Waste Sampling Program<sup>(9)</sup> are included in Table B-1. In many instances, this information supported PK. For WIPP disposal, in the event the source of a detected F-listed solvent cannot be identified, the WIPP WAP requirements call for the assignment of the spent solvent HWN based solely on HSG analysis. In the case of applicable toxicity characteristic VOCs and non-toxic F003 constituents, an assessment may be made of whether the HSG concentration would render the waste hazardous for the toxicity characteristic and assign HWNs accordingly.

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Not all homogeneous solid waste streams had sufficient SS data to fully characterize the waste. For those waste streams with sufficient SS data, HWN assignments were made based on the supporting evidence. Chemical constituents detected in SS were reported if the analyte was detected in more than 25% of the SS analyses and the maximum concentration was equal to or greater than the regulatory threshold limit (RTL). Preliminary solid sampling data were found to be sufficient along with AK and HSG data for characterization in compliance with WIPP requirements of three homogeneous solid waste streams, which included eight RF IDCs (001, 002, 800, 007, 803, 807a, 292, and 807b).<sup>(42, 43, 44)</sup>

The numbers entered into the “REF” column of Table B-1 indicate the document that identifies each of the chemical constituents listed. References are found in Section 10.0. References 2, 4, 6, 10, 13, and 19 are documents prepared and approved by the various waste generators. HWNs and chemical constituents identified in these references are assumed to be correctly assigned by the generator and are listed in the table under the related columns. In these instances, “WG” (for “waste generator”) is placed in the “INFORMATION SOURCE” column.

References 3, 5, 7, 8, 11, 20, 21, 22, 23, 29, 30, 31, and 32 contain information derived by reference to informational resources on waste generation processes and waste generator documents, but the waste generator has not formally endorsed these references. Waste constituents given in these references are listed with the designation “PK” (for process knowledge) as the “INFORMATION SOURCE.” The potential HWNs identified in these documents are listed in the “INL POTENTIAL HWN” column and may be later confirmed by the waste generators or by additional research into generator documents, which would be identified in the table with the designation “AK” (acceptable knowledge).

References 1 and 9 refer to sampling and analysis of headspace gases. Chemical constituents identified via headspace gas analysis are identified with the designation “HSG” (for headspace gas) in the column labeled “INFORMATION SOURCE.” Reference 12 refers to sampling and analysis of solid (sludge) samples. Chemical constituents identified in the solid sampling program are identified with the designation “SS” (for solid samples) in the column labeled “INFORMATION SOURCE.” Sampling and analysis of headspace gases and solid samples continues, and this report will be updated as characterization of waste streams continues.

References 34, 36, 37, 41 through 51, 55 through 71, and 80 through 82 are the WAP-compliant waste stream profiles that were used to declare the final characterization and HWN assignment for waste streams disposed of at WIPP. Lack of entries for an IDC under the column labeled “WIPP WSPF HWN,” indicates that that IDC is not included in a WIPP-approved WSPF.

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**NOTE:** *Not all waste containers stored at the INL that are identified by an IDC and are included in a WIPP WAP-compliant WSPF were shipped to WIPP for disposal. Some containers could not be certified for shipment or for disposal at the WIPP facility because of the presence of prohibited items; such as liquid in excess of the WAP acceptance criteria, lead-acid batteries, inner containers greater than 4 liters. These containers were not considered part of the WSPF waste stream and remain in storage at the INL to be dispositioned at a later date.*

Inconsistent HWN assignments between this report, the baseline RF AK document (INEL-96/0280)<sup>(26)</sup> and the approved waste stream profiles are described and resolved in References 30, 52, and 53.

INEL-96/0280<sup>(26)</sup> contains very extensive information on the history and process operations at the Rocky Flats Plant, as well as the generation, packaging, and characterization of drummed waste at Rocky Flats. This compiled information provides a partial resource for future assignment of HWNs based on usage and, in some cases, analytical data. Hard copies of all AK document references are available for review.

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Table B-1. Chemical constituents identified in TSA waste.

GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
AE, AE	100	GENERAL PLANT WASTE (MW)	ethyl ether	60-29-7	F003	-		PK	7
			nitrates	-	D001	-		PK	7
AE, AE	101	CUT UP GLOVEBOXES (MW)	lead	7439-92-1	D008	-		PK	3
AE, AE	102	ABSORBED LIQUIDS (MW)	ethyl ether	60-29-7	F003	-		-	
			nitrates	-	D001	-			
AE, AE	104	ALPHA HOT CELL WASTE (ROW)	lead (below TCLP)	7439-92-1	-	-		WG, PK	3, 10
AE, AE	105	EMPTY BOTTLES AND ABSORBENT (MW)	ethyl ether	60-29-7	F003	-		-	
			nitrates	-	D001				
AE, AE	106	SPECIAL SOURCE MATERIAL (UNK)	none identified	-	-	-		-	
AE, AE	107	RH WASTE (ROW)	lead (below TCLP)	7439-92-1	-	-		-	10
AE, AE	110	RESEARCH GENERATED WASTE (MW)	acetone	67-64-1	F003	-		PK	5
			arsenic	7440-38-2	D004	-		PK	5
			cadmium	7440-43-9	D006	-		PK	5
			lead	7439-92-1	D008	-		PK	5
AE, AE	111	SOLIDIFIED WET SLUDGE (MW)	arsenic	7440-38-2	D004	-		PK	5
			barium	7440-39-3	D005	-		PK	5
			beryllium (not beryllium powder)	7440-41-7	-	-		PK	5
			cadmium	7440-43-9	D006	-		PK	5
			chromium	7440-47-3	D007	-		PK	5
			lead	7439-92-1	D008	-		PK	5
			mercury	7439-97-6	D009	-		PK	5
AE, AE	120	D AND D WASTE COMPACTABLE AND COMBUSTIBLE SOLIDS (MW)	acetone	67-64-1	F003	-		PK	5
			arsenic	7440-38-2	D004	-		PK	5
			cadmium	7440-43-9	D006	-		PK	5
			lead	7439-92-1	D008	-		PK	5
AE, AE	121	TRU ORGANIC SOLID WASTE (MW)	arsenic	7440-38-2	D004	-		PK	5
			barium	7440-39-3	D005	-		PK	5
			beryllium (not beryllium powder)	7440-41-7	-	-		PK	5
			cadmium	7440-43-9	D006	-		PK	5
			chromium	7440-47-3	D007	-		PK	5

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			lead	7439-92-1	D008	-		PK	5
			mercury	7439-97-6	D009	-		PK	5
BC, BC	201	NON-COMBUSTIBLE SOLIDS (MW)	lead	7439-92-1	D008	-		PK	7
BC, BC	202	COMBUSTIBLE SOLIDS- PAPER/CLOTH (ROW)	none identified	-	-	-		-	7
BC, BC	203	PAPER, CLOTH, METALS, GLASS (ROW)	polychlorinated-biphenyls (PCBs)	1336-36-3	-	-		PK	8
BC, BC	204	SOLIDIFIED SOLUTIONS (ROW)	none identified	-	-	-		-	
BL, BL	010	RAGS, GLOVES, POLY (MW)	1,1,2-trichloro-1,2,2- trifluoroethane	76-13-1	F002	-		WG	6
			methylene chloride	75-09-2	F002	-		WG	6
BL, BL	012	MISCELLANEOUS SOURCES (ROW)	none identified	-	-	-		WG	6
BL, BL	015	NEUTRON SOURCES (ROW)	none identified	-	-	-		WG	6
BL, BL	020	NON-COMPRESSIBLE, NON- COMBUSTIBLE (MW)	1,1,2-trichloro-1,2,2- trifluoroethane	76-13-1	F002	-		WG	6
			methylene chloride	75-09-2	F002	-		WG	6
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	7
BL, BL	030	SOLIDIFIED GRINDING SLUDGE (MW)	1,1,2-trichloro-1,2,2- trifluoroethane	76-13-1	F002	-		WG	6
			methylene chloride	75-09-2	F002	-		WG	6
BL, BL	040	SOLIDIFIED BINARY SCRAP POWDER (ROW)	lead (shielding only)	7439-92-1	-	-		PK	7
BL, BL	050	SOLIDIFIED SOLUTIONS (ROW)	none identified	-	-	-		WG	6
BL, BL	081	METAL SAMPLES FISSILE (ROW)	none identified	-	-	-		WG	6
BL, BL	338	RWMC LEAD SHIELDED OVERPACK: EMPTY (UNK)	none identified	-	-	-		PK	n/a
BN, BN	501	AMWTP SOIL	TBD						
BN, BN	505	INORGANIC HOMOGENEOUS SOLIDS	TBD						
BN, BN	507	ABSORBED AQUEOUS LIQUIDS	TBD						
BN, BN	508	AMWTP NEWLY GENERATED DEBRIS	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002			AK	56
			1,1,2-trichloro-1,2,2- trifluoroethane	76-13-1	F001/F002			AK	56
			1,2-dichloroethane	107-06-2	D028			AK	56

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			1,1-dichloroethylene	75-385-4	D029			AK	56
			acetone	67-64-1	F003			AK	56
			arsenic	7440-38-2	D004			AK	56
			asbestos	1332-21-4				AK	56
			barium	7440-39-3	D005			AK	56
			benzene	71-43-2	D018/F005			AK	56
			cadmium	7440-43-9	D006			AK	56
			carbon disulfide	75-15-0	F005			AK	56
			carbon tetrachloride	56-23-5	F001			AK	56
			chloroform	67-66-3	D022			AK	56
			chromium	7440-47-3	D007			AK	56
			cyanide cleaning bath solutions	-	F009			AK	56
			cyanide plating bath solutions	-	F007			AK	56
			electroplating sludges	-	F006	-		AK	56
			hexachlorobenzene	118-74-1	D032	-		AK	56
			lead	7439-92-1	D008			AK	56
			mercury	7439-97-6	D009			AK	56
			methanol	67-56-1	F003			AK	56
			methylene chloride	75-09-2	F002			AK	56
			methyl ethyl ketone	78-93-3	F005			AK	56
			selenium	7782-49-2	D010			AK	56
			silver	7440-22-4	D011			AK	56
			tetrachloroethylene (perclene)	127-18-4	F001/F002			AK	56
			toluene	108-88-3	F005			AK	56
			trichloroethylene (TCE)	79-01-6	D040/F001/ F002			AK	56
			xylene	1330-20-7	F003			AK	56
BN, BN	509	ABSORBED ORGANIC LIQUIDS	1,1,1-trichloroethane (TCA)	71-55-6		F001/ F002		AK	56
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1		F001/ F002		AK	56
			1,2-dichloroethane	107-06-2		D028		AK	56
			1,1-dichloroethylene	75-385-4		D029		AK	56
			acetone	67-64-1				AK	56

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			arsenic	7440-38-2		D004		AK	56
			asbestos	1332-21-4				AK	56
			barium	7440-39-3		D005		AK	56
			benzene	71-43-2		F005		AK	56
			cadmium	7440-43-9		D006		AK	56
			carbon disulfide	75-15-0		F005		AK	56
			carbon tetrachloride	56-23-5		F001		AK	56
			chloroform	67-66-3		D022		AK	56
			chromium	7440-47-3		D007		AK	56
			cyanide cleaning bath solutions	-		F009		AK	56
			cyanide plating bath solutions	-		F007		AK	56
			electroplating sludges	-		F006		AK	56
			hexachlorobenzene	118-74-1				AK	56
			lead	7439-92-1		D008		AK	56
			mercury	7439-97-6		D009		AK	56
			methanol	67-56-1				AK	56
			methylene chloride	75-09-2		F002		AK	56
			methyl ethyl ketone	78-93-3		F005		AK	56
			selenium	7782-49-2		D010		AK	56
			silver	7440-22-4		D011		AK	56
			tetrachloroethylene (perclene)	127-18-4		F001/ F002		AK	56
			toluene	108-88-3		F005		AK	56
			trichloroethylene (TCE)	79-01-6		F001/ F002		AK	56
BN, BN	510	SUPERCOMPACTED DEBRIS	xylene	1330-20-7				AK	56
			1,1,1-trichloroethane (TCA)	71-55-6			F001/F002	AK	56
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F001/F002	AK	56
			1,2-dichloroethane	107-06-2			D028	AK	56
			1,1-dichloroethylene	75-385-4			D029	AK	56
			acetone	67-64-1				AK	56
			arsenic	7440-38-2			D004	AK	56
			asbestos	1332-21-4				AK	56

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			barium	7440-39-3			D005	AK	56
			benzene	71-43-2			F005	AK	56
			cadmium	7440-43-9			D006	AK	56
			carbon disulfide	75-15-0			F005	AK	56
			carbon tetrachloride	56-23-5			F001	AK	56
			chloroform	67-66-3			D022	AK	56
			chromium	7440-47-3			D007	AK	56
			cyanide cleaning bath solutions	-			F009	AK	56
			cyanide plating bath solutions	-			F007	AK	56
			electroplating sludges	-		-	F006	AK	56
			hexachlorobenzene	118-74-1		-		AK	56
			lead	7439-92-1			D008	AK	56
			mercury	7439-97-6			D009	AK	56
			methanol	67-56-1				AK	56
			methylene chloride	75-09-2			F002	AK	56
			methyl ethyl ketone	78-93-3			F005	AK	56
			selenium	7782-49-2			D010	AK	56
			silver	7440-22-4			D011	AK	56
			tetrachloroethylene (perclene)	127-18-4			F001/F002	AK	56
			toluene	108-88-3			F005	AK	56
			trichloroethylene (TCE)	79-01-6			F001/F002	AK	56
			xylene	1330-20-7				AK	56
BN, BN	511	ORGANIC HOMOGENEOUS SOLIDS	TBD						
BN, BN	526	LABORATORY WASTE >50% DEBRIS	TBD					HWD-	
BN, BN	530	MIXED LOW-LEVEL WASTE NON-COMBUSIBLE LIQUID	TBD					HWD-	
BN, BN	531	LOW-LEVEL WASTE SHREDDER OIL	TBD					HWD-	
BN, BN	535	MIXED LOW-LEVEL WASTE COMBUSTIBLE LIQUID	TBD					HWD	
BN, BN	603	ABSORBED/SOLIDIFIED ANALYTICAL WASTE <50% DEBRIS	TBD					HWD	
BN, BN	604	DEBRIS TSCA/PCB	TBD					HWD	

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BN, BN	605	ABSORBED LIQUIDS TSCA/PCB	TBD					HWD	
BN, BN	607	FIRST/SECOND STAGE SLUDGE LIQUIDS	TBD					HWD	
BN, BN	608	SPECIAL SET UPS LIQUID	TBD					HWD	
BN, BN	609	BUILDING 374 SLUDGE LIQUID	TBD					HWD	
BN, BN	610	MISCELLANEOUS CEMENTED SLUDGE LIQUID	TBD					HWD	
BN, BN	611	SEWAGE AND POND SLUDGE LIQUID	TBD					HWD	
BN, BN	612	CAUSTIC WASTE LIQUID	TBD					HWD	
BN, BN	613	ACID WASTE LIQUID	TBD					HWD	
BN, BN	614	CEMENTED SLUDGE LIQUID	TBD					HWD-	
BN, BN	615	OASIS LIQUID	TBD					HWD	
BN, BN	616	ORGANIC SETUPS LIQUID	TBD					HWD	
BN, BN	617	SOLIDIFIED SOLUTIONS LIQUID	TBD					HWD	
BN, BN	618	MLLW NON DEBRIS	TBD					HWD	
BN, BN	619	LLW DEBRIS AND NON DEBRIS	TBD					HWD	
BN, BN	620	MLLW DEBRIS	TBD					HWD	
BN, BN	621	MLLW PCB DEBRIS	TBD					HWD	BN, BN
BN, BN	622	MLLW PCB NON-DEBRIS	TBD					HWD-	
BN, BN	623	MLLW AEROSOL CAN & GAS CYLINDERS WITH CONTENT PRESENT	TBD					HWD-	
BN, BN	624	MLLW EMPTY AEROSOL CAN & EMPTY GAS CYLINDERS	TBD					HWD-	
BN, BN	625	LLW SOIL	TBD					HWD	
BN, BN	626	MLLW SOIL	TBD					HWD	
BN, BN	627	MLLW PCB SOIL	TBD					HWD	
BN, BN	628	MLLW PCB COMBUSTIBLE LIQUID	TBD					HWD	BN, BN

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
BN, BN	629	MLLW PCB NON-COMBUSTIBLE LIQUID	TBD					HWD-	
BN, BN	630	MLLW LEAD ACID BATTERIES	TBD					HWD-	
BN, BN	701	MLLW SUPERCOMPACTED DEBRIS	TBD					HWD	
BW, BW	515	PLASTICS, PAPER, CLOTH, ETC. (ROW)	none identified	-	-	-		-	21
BW, BW	516	STEEL, AL, ELECTRICAL DEVICES-HANDHELD (ROW)	none identified	-	-	-		-	21
BW, BW	517	HEAVY METALS, STEEL, AL, BRASS (ROW)	none identified	-	-	-		-	21
BX, BX	111	MISCELLANEOUS SOURCE MATERIAL (ROW)	none identified	-	-	-		-	
ID, AW	150	LABORATORY WASTE (MW)	lead	7439-92-1	D008	-		PK	3, 8
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	3
ID, AW	151	SOLIDIFIED FUEL SLUDGE	lead	7439-92-1	D008	-		PK	3
ID, AW	152	PU NEUTRON SOURCES (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	8
ID, AW	153	COMBUSTIBLE LAB WASTE (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	7
			lead (shielding only)	7439-92-1	-	-		PK	3
ID, AW	154	SAMPLE FUEL (ROW)	lead (shielding only)	7439-92-1	-	-		PK	7
ID, AW	155	TRU SCRAP (ROW)	lead (shielding only)	7439-92-1	-	-		PK	8
ID, AW	156	CHEM CELL RIP-OUT (UNK)	none identified	-	-	-		-	
ID, AW	157	MISCELLANEOUS SOURCES	lead	7439-92-1	D008	-		-	
ID, AW	160	ANL-W HFEF ANALYTICAL COMBUSTIBLES (RAD)	none identified	-	-	-		-	
ID, AW	161	ACL GLASSWARE, PAPER, POLY, AND MISCELLANEOUS (ROW)	none identified	-	-	-		PK	29
ID, AW	162	ANL-W FMF EFL ZR-U-PU FUEL CASTING (ROW)	none identified	-	-	-		PK	29
ID, AW	163	ANL-W ACL COLD-LINE ABSORBED LIQUID AND DEBRIS (ROW)	none identified	-	-	-		PK	29
ID, AW	164	WETP PROCESS WASTE (MW)	1,1,1-trichloroethane	71-55-6	-	F001		WG	19
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	19

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			1,1-dichloroethylene	75-35-4	-	D029		WG	19
			1,2-dichloroethane	107-06-2	-	D028		WG	19
			1-butanol	71-36-3	-	F003		WG	19
			acetone	67-64-1	-	F003		WG	19
			barium	7440-39-3	-	D005		WG	19
			benzene	71-43-2	-	F005		WG	19
			cadmium	7440-43-9	-	D006		WG	19
			carbon tetrachloride	56-23-5	-	F001		WG	19
			chloroform	67-66-3	-	D022		WG	19
			chromium	7440-47-3	-	D007		WG	19
			ethyl benzene	100-41-4	-	F003		WG	19
			lead	7439-92-1	-	D008		WG	19
			mercury	7439-97-6	-	D009		WG	19
			methanol	67-56-1	-	F003		WG	19
			methylene chloride	75-09-2	-	F002		WG	19
			nitrobenzene	98-95-3	-	F004		WG	19
			silver	7440-22-4	-	D011		WG	19
			tetrachloroethylene (perclene)	127-18-4	-	F001		WG	19
			toluene	108-88-3	-	F005		WG	19
			trichloroethylene (TCE)	79-01-6	-	F001		WG	19
			xylene	1330-20-7	-	F003		WG	19
ID, IA	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	
ID, IC	021	RADIOACTIVE MIXED LEAD WASTE (MW)	lead	7439-92-1	D008	-		-	
ID, IC	150	LABORATORY WASTE (MW)	lead	7439-92-1	D008	-		PK	3, 8
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	3
ID, IC	151	SOLIDIFIED FUEL SLUDGE (MW)	lead	7439-92-1	D008	-		PK	3
ID, IC	152	PU NEUTRON SOURCES (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	8
ID, IC	156	CHEM CELL RIP-OUT (UNK)	none identified	-	-	-		-	
ID, IC	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	
ID, IC	601	ALPHA LOW LEVEL LAB. WIPP ANALYTICAL WASTE (MW)	arsenic	7440-38-2	D004	-			

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			barium	7440-39-3	D005	-			
			cadmium	7440-43-9	D006	-			
			chromium	7440-47-3	D007	-			
			lead	7439-92-1	D008	-			
			mercury	7439-97-6	D009	-			
			selenium	7782-49-2	D010	-			
			silver	7440-22-4	D011	-			
			carbon tetrachloride	56-23-5	F001	-			
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-			
			ethyl ether	60-29-7	F003	-			
			toluene	108-88-3	F005	-			
			electroplating sludges	-	F006	-			
			cyanide plating bath solutions	-	F007	-			
			cyanide cleaning bath solutions	-	F009	-			
ID, IF	150	LABORATORY WASTE (MW)	lead	7439-92-1	D008	-		PK	3, 8
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	3
ID, IF	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	
ID, IN	021	RADIOACTIVE MIXED LEAD WASTE (MW)	lead	7439-92-1	D008	-		-	
ID, IN	152	PU NEUTRON SOURCES (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	8
ID, IN	153	COMBUSTIBLE LAB WASTE (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	7
			lead (shielding only)	7439-92-1	-	-		PK	3
ID, IN	155	TRU SCRAP (ROW)	lead (shielding only)	7439-92-1	-	-		PK	8
ID, IR	021	RADIOACTIVE MIXED LEAD WASTE (MW)	lead	7439-92-1	D008	-		-	
ID, IR	150	LABORATORY WASTE (MW)	lead	7439-92-1	D008	-		PK	3, 8
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	3
ID, IR	151	SOLIDIFIED FUEL SLUDGE (MW)	lead	7439-92-1	D008	-		PK	3
ID, IR	154	SAMPLE FUEL (ROW)	lead (shielding only)	7439-92-1	-	-		PK	7
ID, IR	155	TRU SCRAP (ROW)	lead (shielding only)	7439-92-1	-	-		PK	8
ID, IR	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	

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ID, IT	021	RADIOACTIVE MIXED LEAD WASTE (MW)	lead	7439-92-1	D008	-		-	
ID, IT	152	PU NEUTRON SOURCES (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-		PK	8
ID, IT	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	
ID, IT	175	DRCT SCRAP METAL WASTE FROM TAN (ROW)	none identified	-	-	-		-	-
ID, IW	005	EVAPORATOR SALTS-RETRIEVED RF TRU (MW)	nitrates	-	D001	-		PK	7
ID, IW	021	RADIOACTIVE MIXED LEAD WASTE (MW)	lead	7439-92-1	D008	-		-	
ID, IW	155	TRU SCRAP (ROW)	lead (shielding only)	7439-92-1	-	-		PK	8
ID, IW	157	MISCELLANEOUS SOURCES (MW)	lead	7439-92-1	D008	-		-	
ID, IW	337	PLASTIC, TEFLON, WASH, PVC, RETRIEVED RF TRU (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG	1, 2, 26
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2, 9
			cadmium	7440-43-9	D006	-		AK	26
			carbon tetrachloride	56-23-5	F001	F001		AK, WG	2, 26
			chloroform	67-66-3	D022	-		AK	1, 26
			chromium	7440-47-3	D007	-		AK	26
			cyanide cleaning bath solutions	-	F009	-		AK	26
			cyanide plating bath solutions	-	F007	-		AK	26
			cyclohexane	110-82-7	-	-		HSG	1
			electroplating sludges	-	F006	-		AK	26
			lead	7439-92-1	D008	-		AK, WG	2, 26
			methylene chloride	75-09-2	F002	F002		AK, WG	2, 26
			silver	7440-22-4	D011	-		AK	26
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-		AK	26
			toluene	108-88-3	F005	-		AK	26
			trichloroethylene (TCE)	79-01-6	F001/F002	F001		AK, WG	1, 2, 26
			xylene	1330-20-7	F003	-		AK, WG	2, 26
			trichloroethylene					AK	74
ID, SD	704	SDA HOMOGENEOUS SOILDS (draft WSP)	carbon tetrachloride					AK	74
			chlorobenzene					AK	74

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
		(EPA HWNs assigned by CCP for generator.)	methylene chloride					AK	74
			tetrachloroethylene					AK	74
			1,1,1-trichloroethane					AK	74
			1,1,2-trichloroethane					AK	74
			1,2-Dichlorobenzene					AK	74
			trichloroethylene					AK	74
			1,1,2-trichloro-1,2,2-trifluoroethane					AK	74
			creosols					AK	74
			nitrobenzene					AK	74
			benzene					AK	74
			carbon disulfide					AK	74
			methyl ethyl ketone					AK	74
			toluene					AK	74
			wastewater treatment sludges from electroplating operations					AK	74
			spent cyanide plating bath solution from electroplating operations					AK	74
			spent stripping and cleaning bath solution from electroplating operations					AK	74
			arsenic					AK	74
			barium					AK	74
			cadmium					AK	74
			chromium					AK	74
			lead					AK	74
			mercury					AK	74
			selenium					AK	74
			silver					AK	74
			chloroform					AK	74
			1,4-dichlorobenzene					AK	74
			1,2-dichloroethane					AK	74
			1,1-dichloroethylene					AK	74
			2,4-dinitrotoluene					AK	74

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			hexachlorobenzene					AK	74
			hexachlorobutadiene					AK	74
			hexachloroethane					AK	74
			pyridine					AK	74
			vinyl chloride					AK	74
ID, SD	705	SDA HETEROGENEOUS DEBRIS (WSP ID-SDA-DEBRIS) (EPA HWNs assigned by CCP for generator.)	carbon tetrachloride			F001		AK	74/87
			chlorobenzene			F002		AK	74/87
			methylene chloride			F001, F002		AK	74/87
			tetrachloroethylene			F001, F002		AK	74/87
			1,1,1-trichloroethane			F001, F002		AK	74/87
			1,1,2-trichloroethane			F002		AK	74/87
			trichloroethylene			F002		AK	74/87
			1,1,2-trichloro-1,2,2-trifluoroethane			F001, F002		AK	74/87
			cresols			F001, F002		AK	74/87
			nitrobenzene			F004		AK	74/87
			benzene			F005		AK	74/87
			carbon disulfide			F005		AK	74/87
			methyl ethyl ketone			F005		AK	74/87
			toluene			F005		AK	74/87
			wastewater treatment sludges from electroplating operations			F006		AK	74/87
			spent cyanide plating bath solution from electroplating operations			F007		AK	74/87
			spent stripping and cleaning bath solution from electroplating operations			F009		AK	74/87
			arsenic			D004		AK	74/87
			barium			D005		AK	74/87
			cadmium			D006		AK	74/87

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			chromium			D007		AK	74/87
			lead			D008		AK	74/87
			mercury			D009		AK	74/87
			selenium			D010		AK	74/87
			silver			D011		AK	74/87
			chloroform			D022		AK	74/87
			1,4-dichlorobenzene			D027		AK	74/87
			1,2-dichloroethane			D028		AK	74/87
			1,2-dichlorethylene			D029		AK	74/87
			2,4-dinitrotoluene			D030		AK	74/87
			hexachlorobenzene			D032		AK	74/87
			hexachlorobutadiene			D033		AK	74/87
			hexachloroethane			D034		AK	74/87
			pyridine			D038		AK	74/87
			vinyl chloride			D043		AK	74
ID, SD	706	SDA SOIL (draft WSP) (EPA HWNs assigned by CCP for generator.)	carbon tetrachloride					AK	74
			chlorobenzene					AK	74
			methylene chloride					AK	74
			tetrachloroethylene					AK	74
			1,1,1-trichloroethane					AK	74
			1,1,2-trichlorethane					AK	74
			1,2-dichlorobenzene					AK	74
			trichloroethylene					AK	74
			1,1,2-trichloro-1,2,2-trifluoroethane					AK	74
			cresols					AK	74
			nitrobenzene					AK	74
			benzene					AK	74
			carbon disulfide					AK	74
			methyl ethyl ketone					AK	74
			toluene					AK	74
			wastewater treatment sludges from electroplating operations					AK	74
			spent cyanide plating bath solution from electroplating operations					AK	74

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			spent stripping and cleaning bath solution from electroplating operations					AK	74
			arsenic					AK	74
			barium					AK	74
			cadmium					AK	74
			chromium					AK	74
			lead					AK	74
			mercury					AK	74
			selenium					AK	74
			silver					AK	74
			chloroform					AK	74
			1,4-dichlorobenzene					AK	74
			1,2-dichloroethane					AK	74
			1,1-dichloroethylene					AK	74
			2,4-dinitrotoluene					AK	74
			hexachlorobenzene					AK	74
			hexachlorobutadiene					AK	74
			hexachloroethane					AK	74
			pyridine					AK	74
			vinyl chloride					AK	74
JH, JH	826	COMBUSTIBLE EQUIPMENT BOXES AND FLOOR SWEEPINGS (ROW)	none identified	-	-	-		PK	22
JH, JH	827	SOLID TRASH AND DRY LAB. MATERIAL (ROW)	none identified	-	-	-		PK	22
MD, MD	801	RAGS, PAPER, WOOD, ETC. (ROW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	7, 63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury	7439-97-6	-	-	D009	AK	63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates (from IDC 812)	-	-	-	-	PK	7
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MD, MD	802	DRY BOX GLOVES AND O-RINGS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	D008	-	D008	AK, PK	7, 63

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
MD, MD	803	METAL, EQUIPMENT, PIPE, VALVES, ETC. (MW)	mercury	7439-97-6	-	-	D009	AK	63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates (from IDC 812)	-	-	-	-	PK	7
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury	7439-97-6	-	-	D009	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates (from IDC 812)	-	-	-	-	PK	7
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
MD, MD	804	PLASTIC, TYGON, MANI-BOOTS, ETC. (MW)	toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
selenium	7782-49-2	-	-	D010	AK	63			
silver	7440-22-4	-	-	D011	AK	63			
tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63			
toluene	108-88-3	-	-	F005	AK	63			
trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63			
MD, MD	805	ASBESTOS FILTERS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			asbestos	1332-21-4	-	-	-	PK	7

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates	-	D001	-	-	PK	7
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	PK	7
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MD, MD	810	GLASS FLASKS, SAMPLE VIALS, ETC. (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MD, MD	811	EVAPORATOR AND DISSOLVER SLUDGE (MW)	beryllium (not beryllium powder)	7440-41-7	-	-	-	PK	7
			mercury (from IDC 832)	7439-97-6	D009	-	-	PK	7
			nitrates	-	D001	-	-	PK	3
MD, MD	812	SPENT ION EXCHANGE RESIN (ROW)	nitrates (in IDCs 801, 802, 803, and 824)	-	-	-	-	PK	7
MD, MD	813	GLASS FILTERS AND FIBERGLASS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
MD, MD	814	GRAPHITE WASTE (MW)	lead	7439-92-1	-	-	D008	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates	-	D001	-	-	PK	3
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	PK	7
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	-	-	D008	AK	63
			mercury	7439-97-6	-	-	D009	AK	63
			mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	7, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			selenium	7782-49-2	-	-	D010	AK	63

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			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MD, MD	815	CLASSIFIED PARTS (MW)	mercury	7439-97-6	D009	-		-	
MD, MD	824	EQUIPMENT BOXES NON-COMBUSTIBLE (MW)	barium	7440-39-3	D005	-		PK	5
			cadmium	7440-43-9	D006	-		PK	5
			chromium	7440-47-3	D007	-		PK	5
			lead	7439-92-1	D008	-		PK	5
			mercury	7439-97-6	D009	-		PK	5
			nitrates (from IDC 812)	-	-	-		PK	7
			selenium	7782-49-2	D010	-		PK	5
			silver	7440-22-4	D011	-		PK	5

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MD, MD	825	EQUIPMENT DRUMS NON-COMBUSTIBLE (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	D005	-	D005	AK, PK	32, 63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	D006	-	D006	AK, PK	32, 63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	D007	-	D007	AK, PK	32, 63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	D008	-	D008	AK, PK	32, 63
			mercury (in IDCs 803, 804, 805, 810, 811, 813, 814, 826, and 832)	7439-97-6	D009	-	D009	AK, PK	32, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates (from IDC 812)	-	-	-	-	PK	32
			selenium	7782-49-2	D010	-	D010	AK, PK	32, 63
			silver	7440-22-4	D011	-	D011	PK	32, 63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63			

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MD, MD	826	EQUIPMENT BOXES, COMBUSTIBLE (MW)	mercury (from IDC 832)	7439-97-6	D009	-	D009	AK, PK	5, 7, 63
MD, MD	827	EQUIPMENT DRUMS, COMBUSTIBLE (MW)	1,1-dichloroethylene	75-35-4	-	-	D029	AK	63
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	63
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	63
			1,1-dichloroethylene	75-35-4	-	-	-	AK	63
			arsenic	7440-38-2	-	-	D004	AK	63
			barium	7440-39-3	-	-	D005	AK	63
			benzene	74-43-2	-	-	F005	AK	63
			cadmium	7440-43-9	-	-	D006	AK	63
			carbon disulfide	75-15-0	-	-	F005	AK	63
			carbon tetrachloride	56-23-5	-	-	F001	AK	63
			chloroform	67-66-3	-	-	D022	AK	63
			chromium	7440-47-3	-	-	D007	AK	63
			cyanide	57-12-5	-	-	-	AK	63
			cyanide cleaning bath solutions	-	-	-	F009	AK	63
			cyanide plating bath solutions	-	-	-	F007	AK	63
			lead	7439-92-1	D008	-	D008	AK, PK	5, 63
			mercury	7439-97-6	D009	-	D009	AK, PK	5, 63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			selenium	7782-49-2	-	-	D010	AK	63
			silver	7440-22-4	-	-	D011	AK	63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MD, MD	832	CONTAMINATED MERCURY (MW)	mercury (in IDCs 803, 804, 805, 810, 811, 813, 814, and 826)	7439-97-6	D009	-	-	PK	7
MD, MD	834	HIGH LEVEL ACID (MW)	nitrates	-	D001	-	-	PK	3
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	PK	7
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	55
			chromium	7440-47-3	-	-	D007	AK	55

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MD, MD	835	HIGH LEVEL CAUSTIC (MW)	lead	7439-92-1	-	-	D008	AK	55		
			mercury	7439-97-6	-	-	D009	AK	55		
			carbon tetrachloride	56-23-5	-	-	F001	A K	55		
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	55		
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	PK	7			
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	AK	55		
			chromium	7440-47-3	-	-	D007	AK	55		
			lead	7439-92-1	-	-	D008	AK	55		
			mercury	7439-97-6	-	-	D009	AK	55		
			carbon tetrachloride	56-23-5	-	-	F001	AK	55		
MD, MD	836	HIGH LEVEL SLUDGE/CEMENT (MW)	trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	55		
			1,1,1-trichloroethane (TCA)	71-55-6	F001	-	F001/F002	AK, PK	5, 80		
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-	PK	5			
			acetone	67-64-1	F003	-	PK	8, 80			
			arsenic	7440-38-2	-	-	D004	AK, PK	8, 80		
			barium	7440-39-3	-	-	D005	AK, PK	8, 80		
			benzene	74-43-2	-	-	F005	AK, PK	8, 80		
			beryllium (not beryllium powder)	7440-41-7	-	-	AK, PK	8			
			cadmium	7440-43-9	D006	-	D006	AK, PK	5, 80		
			chromium	7440-47-3	D007	-	D007	AK, PK	8, 80		
			lead	7439-92-1	D008	-	D008	AK, PK	8, 80		
			mercury	7439-97-6	D009	-	D009	AK, PK	8, 80		
			methanol	67-56-1	F003	-	PK	8			
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	PK	8			
			selenium	7782-49-2	D010	-	D010	AK, PK	5, 80		
			silver	7440-22-4	D011	-	D011	AK, PK	5, 80		
			tetrachloroethylene (perclene)	127-18-4	F002	-	F001/F002	80			
			toluene	108-88-3	F005	-	80				
			MD, MD	838	<10 NCI/GM NON-COMBUSTIBLE (UNK)	trichloroethylene (TCE)	79-01-6	F001	-	AK, PK	80
						none identified	-	-	-	-	-

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MD, MD	842	CONTAMINATED SOIL (MW)	cadmium	7440-43-9	D006	-		PK	5			
			calcium (air reacted)	7440-70-2	-	-		PK	5			
			chromium	7440-47-3	D007	-		PK	5			
			lead	7439-92-1	D008	-		PK	5			
			mercury	7439-97-6	D009	-		PK	5			
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	7			
			selenium	7782-49-2	D010	-		PK	5			
			silver	7440-22-4	D011	-		PK	5			
			MD, MD	847	LSA <100 NCI/GM COMBUSTIBLE (MW)	mercury (in IDCs 803, 804, 805, 810, 811, 813, 814, 826, and 832)	7439-97-6	D009	-		PK	32
						nitrates (from IDC 812)	-	-	-		PK	32
			MD, MD	848	LSA <100 NCI/GM NON-COMBUSTIBLE (MW)	lead	7439-92-1	D008	-		PK	32
1,1-dichloroethylene	75-35-4	-				-	D029	AK	63			
1,1,1-trichloroethane (TCA)	71-55-6	-				-	F001/F002	AK	63			
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-				-	F001/F002	AK	63			
1,1-dichloroethylene	75-35-4	-				-	-	AK	63			
arsenic	7440-38-2	-				-	D004	AK	63			
asbestos	1332-21-4	-				-		PK	32			
barium	7440-39-3	D005				-	D005	AK, PK	32, 63			
benzene	74-43-2	-				-	F005	AK	63			
cadmium	7440-43-9	D006				-	D006	AK, PK	32, 63			
carbon disulfide	75-15-0	-				-	F005	AK	63			
carbon tetrachloride	56-23-5	-				-	F001	AK	63			
chloroform	67-66-3	-				-	D022	AK	63			
chromium	7440-47-3	D007				-	D007	AK, PK	32, 63			
cyanide	57-12-5	-				-	-	AK	63			
cyanide cleaning bath solutions	-	-				-	F009	AK	63			
cyanide plating bath solutions	-	-				-	F007	AK	63			
lead	7439-92-1	D008	-	D008	AK, PK	32, 63						

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			mercury (in IDCs 803, 804, 805, 810, 811, 813, 814, 826, and 832)	7439-97-6	D009	-	D009	AK, PK	32, 63
			mercury	7439-97-6	-	-	D009	AK	63
			methyl ethyl ketone	96-2-97	-	-	F005	AK	63
			methylene chloride	75-09-2	-	-	F001/F002	AK	63
			nitrates	-	D001	-		PK	32
			potential corrosive if liquids exceed the WIPP-WAC limit	-	D002	-		PK	32
			selenium	7782-49-2	D010	-	D010	AK, PK	32, 63
			silver	7440-22-4	D011	-	D011	AK, PK	32, 63
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	63
			toluene	108-88-3	-	-	F005	AK	63
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	63
MO, MO	530	COMPACTED WASTE (ROW)	none identified	-	-	-		PK	20
MO, MO	535	COMPACTED WASTE/LEAD (ROW)	none identified	-	-	-		PK	
MO, MO	540	NON-COMPACTED WASTE (ROW)	none identified	-	-	-		PK	20
MO, MO	545	WEP SHIELDED WASTE (ROW)	none identified	-	-	-		PK	20
MO, MO	550	SOLIDIFIED OIL (ROW)	none identified	-	-	-		PK	20
MX, MX	142	SCRAP PROCESSING EQUIPMENT (ROW)	none identified	-	-	-		PK	23
RF, RF	001	FIRST STAGE SLUDGE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 42, 81
			1,1,2,2-tetrachloroethane	79-34-5	-	-		WG	2
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG, HSG	1, 2, 26, 42, 81
			1,1,2-trichloroethane	79-00-5	F002			AK	26, 42
			1,2-dichloroethylene	540-59-0	-	-		WG	2
			1-butanol	71-36-3	-	F003		WG	2
			acetone	67-64-6	-	-	F003		81
			arsenic	7440-38-2	D004		D004	AK	26, 42, 81
			barium	7440-39-3	D005	-	D005	AK, PK	8, 26, 42, 81
			benzene	71-43-2	-	-	F005	PK	1, 42, 81
			beryllium (not beryllium powder)	7440-41-7	-	-		WG, SS	2, 12

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			cadmium	7440-43-9	D006	D006	D006	AK, WG, PK, SS	2, 11, 12, 26, 42, 81
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 9, 26, 42, 81
			chlorobenzene	108-90-7	F002	-	F002	AK	26, 42, 81
			chloroform	67-66-3	-	-	D022	WG, HSG	2, 42, 81
			chromium	7440-47-3	D007	-	D007	AK, WG, PK, SS	2, 11, 12, 26, 42, 81
			cyanide cleaning bath solutions	-	F009	F009	F009	AK, WG	13, 26, 42, 81
			cyanide plating bath solutions	-	F007	F007	F007	AK, WG	13, 26, 42, 81
			electroplating sludges	-	F006	F006	F006	AK, WG	13, 26, 42, 81
			ethyl benzene	100-41-4	F003	-	-	AK, PK	11, 26, 42
			lead	7439-92-1	D008	D008	D008	AK, WG, SS	2, 12, 26, 42, 81
			mercury	7439-97-6	D009	-	D009	AK, PK, SS	5, 12, 26, 42, 81
			methanol	67-56-1	F003	F003	F003	WG	2, 81
			methylene chloride	75-09-2	F001/F002	F002	F001/F002	AK, WG	2, 9, 26, 42, 81
			nickel (total)	-	-	-	-	SS	12
	(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	AK	26, 42
			selenium	7782-49-2	D010	-	D010	AK	26, 42, 81
			silver	7440-22-4	D011	-	D011	AK, PK, SS	11, 12, 26, 42, 81
			tetrachloroethylene (perclene)	127-18-4	-	F001	F001/F002	WG	2, 42, 81
			toluene	108-88-3	F005	-	F005	AK, PK	11, 26, 42, 81
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 42, 81
			xylene	1330-20-7	F003	F003	F003	AK, WG	2, 26, 81
RF, RF	002	SECOND STAGE SLUDGE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 42, 81
			1,1,2,2-tetrachloroethane	79-34-5	-	-	-	WG	2
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG	2, 26, 42, 81
			1,1,2-trichloroethane	79-00-5	F002	-	-	AK	26, 42, 81

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			1,2-dichloroethylene	540-59-0	-	-		WG	2
			1-butanol	71-36-3	-	F003		WG	2, 42
			acetone	67-64-6	-	-	F003		42, 81
			arsenic	7440-38-2	D004	-	D004	AK	26, 42, 81
			barium	7440-39-3	D005	-	D005	AK, PK	8, 26, 42, 81
			benzene	71-43-2	-	-	F005	AK	42, 81
			beryllium (not beryllium powder)	7440-41-7	-	-		WG, SS	2, 12
			cadmium	7440-43-9	D006	D006	D006	AK, WG, SS	2, 12, 26, 42, 81
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 26, 42
			chlorobenzene	108-90-7	F002	-	F002	AK	26, 81
			chloroform	67-66-3	-	-	D022	WG, HSG	2, 42, 81
			chromium	7440-47-3	D007	-	D007	AK, WG, SS	2, 26, 42, 81
			cyanide cleaning bath solutions	-	F009	F009	F009	AK, WG	13, 26, 42, 81
			cyanide plating bath solutions	-	F007	F007	F007	AK, WG	13, 26, 42, 81
			electroplating sludges	-	F006	F006	F006	AK, WG	13, 26, 42, 81
			ethyl benzene	100-41-4	F003	-		AK, PK	11, 26, 42
			lead	7439-92-1	D008	D008	D008	AK, WG, SS	2, 26, 42, 81
			lithium (discharged batteries)	7439-93-2	-	-		PK	7, 42
			mercury	7439-97-6	D009	D009	D009	AK, WG	2, 26, 42, 81
			methanol	67-56-1	-	F003	F003	WG	2, 42, 81
			methylene chloride	75-09-2	F001/F002	F002	F001/F002	AK, WG,	2, 9, 26, 42, 81
	(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		AK, PK	5, 26, 42
			selenium	7782-49-2	D010	-	D010	AK	26, 42, 81
			silver	7440-22-4	D011	-	D011	AK, PK, SS	8, 12, 26, 42, 81
			tetrachloroethylene (perclene)	127-18-4	-	F001	F001/F002	WG	2, 42, 81
			toluene	108-88-3	F005	-	F005	AK	26, 42, 81
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 42, 81
			xylene	1330-20-7	F003	F003	F003	AK, WG	2, 26, 42, 81

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RF, RF	003	ORGANIC SETUPS, OIL SOLIDS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 67
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG, HSG	1, 2, 9, 26, 67
			1,1-dichloroethane	75-34-3	-	-		HSG	1
			1,1-dichloroethylene	75-35-4	D029	-	D029	AK	26, 67
			1,2-dichlorobenzene	95-50-1			F002		67
			1,2-dichloroethane	107-06-2			D028		67
			1,4-dichlorobenzene	95-50-1			D027		67
			2-ethoxyethanol	110-80-5			F005		67
			2,4-dinitrotoluene	121-14-2			D030		67
			barium	7440-39-3	D005	-		PK	8
			benzene	71-43-2			F005		67
			beryllium (not beryllium powder)	7440-41-7	-	-		WG	2
			carbon disulfide	71-15-0			F005		67
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 9, 26, 67
			chloroform	67-66-3	D022	-	D022	AK, HSG	1, 26, 67
			cresol	1319-77-3			D026		67
			hexachlorobenzene	118-74-1			D032		67
			hexachloroethane				D034		67
			methyl ethyl ketone	96-2-97			F005		67
			methylene chloride	75-09-2	F001/F002	F002	F002	AK, WG, HSG	1, 2, 9, 26, 67
			nitrobenzene	98-95-3	D036	-	D036	AK, WG	2, 26, 67
			pentachlorophenol	87-86-5			D037		67
			polychlorinated-biphenyls (PCBs)	1336-36-1	-	-		PK	7
			pyridine	110-86-1			F005		67
			silver	7440-22-4	D011	-		PK	8
			tetrachloroethylene (perclene)	127-18-4	F001/F002	F001	F002	AK, WG, HSG	1, 2, 26, 67
			toluene	108-88-3	F005	-	F005	AK	26, 67
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F002	AK, WG, HSG	1, 2, 9, 26, 67
			xylene	1330-20-7	F003	-		AK	26
			RF, RF	004	SPECIAL SETUPS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-				F002	F002	WG, HSG	2, 9, 66
1,1-dichloroethylene	75-35-4	-				-	D029	HSG	66

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			1-butanol	71-36-3	-	F003		WG	2
			2-ethoxyethanol	110-80-5	F005	-	F005	AK	26, 66
			acetone	67-64-6				AK	66
			benzene	71-43-2			F005	AK	66
			cadmium	7440-43-9	-	D006	D006	WG	2, 66
			carbon tetrachloride	56-23-5	F001/F002	F001	F001	AK, WG, HSG	1, 2, 26, 66
			chromium	7440-47-3	-	D007	D007	WG	2, 66
			cyclohexane	110-82-7	-	-		HSG	1
			ethyl benzene	100-41-4	F003	-		AK, HSG	1, 26, 66
			lead	7439-92-1		D008	D008	WG	2, 66
			methanol	67-56-1	F003	F003		AK, WG, HSG	1, 2, 26, 66
			methylene chloride	75-09-2	F001/F002	-	F001/F002	WG	2, 66
			methyl ethyl ketone	96-2-97			F005	AK	66
			silver	7440-22-8	-	D011	D011	WG	2, 66
			toluene	108-88-3	F005	-	F005	AK	2, 66
			tetrachloroethylene	127-18-4			F001	AK	66
			trichloroethylene (TCE)	79-01-6	F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 66
			xylene	1330-20-7	F003	F003		AK, WG, HSG	1, 2, 26, 66
			cyanide cleaning bath solutions	-			F009	AK	66
			cyanide plating bath solutions	-			F007	AK	66
			electroplating sludges	-			F006	AK	66
RF, RF	005	EVAPORATOR SALTS (MW)	nitrates	-	D001	-		PK	7
RF, RF	007	BUILDING 374 DRY SLUDGE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001	AK, WG, HSG, SS	1, 2, 9, 12, 26, 43, 82
			1,1,2,2-tetrachloroethane	79-34-5	-	-		WG	2
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F001	AK, WG,	2, 9, 26, 43, 82
			1,2-dichloroethylene	540-59-0	-	-		WG	2
			1-butanol	71-36-3	-	F003		WG	2, 43, 82
			arsenic	7440-38-2	-	-		PK	11
			barium	7440-39-3	-	-		PK	11
			benzene	71-43-2	-	-	F005	AK	43, 82
			beryllium (not beryllium powder)	7440-41-7	-	-		WG, SS	2, 12

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			cadmium	7440-43-9	D006	D006	D006	WG, PK, SS	2, 11, 12, 43, 82
			carbon tetrachloride	56-23-5	-	F001	F001	AK, WG,	2, 9, 26, 43, 82
			chloroform	67-66-3	-	-	-	WG	2
			chromium	7440-47-3	D007	-	D007	AK, WG, PK, SS	2, 11, 12, 26, 43, 82
			cyanide	57-12-5	-	-	-	PK	11
			cyanide cleaning bath solutions	-	F009	F009	F009	AK, WG	13, 26, 43, 82
			cyanide plating bath solutions	-	F007	F007	F007	AK, WG	13, 26, 43, 82
			electroplating sludges	-	F006	F006	F006	AK, WG	13, 26, 43, 82
			hexachlorobenzene	118-74-1	-	-	D032	SS	43, 82
			lead	7439-92-1	D008	D008	D008	WG, PK, SS	2, 11, 12, 43, 82
			mercury	7439-97-6	D009	-	D009	PK, SS	5, 11, 12, 43, 82
			methanol	67-56-1	F003	F003	-	WG	2, 43
			methyl ethyl ketone	78-93-3	-	-	F005	AK	43, 82
			methylene chloride	75-09-2	F002	F002	F002	AK, WG,	1, 2, 26, 43, 82
			nickel (total)	-	-	-	-	SS	12
		(see Note 3)	potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	AK	26, 43
			selenium	7782-49-2	D010	-	D010	AK, PK	11, 26, 43, 82
			silver	7440-22-4	D011	-	D011	PK, SS	11, 12, 43, 82
			tetrachloroethylene (perclene)	127-18-4	-	F001	F001	AK, WG	2, 26, 43, 82
			toluene	108-88-3	F005	-	F005	AK	13, 26, 43, 82
			trichloroethylene (TCE)	79-01-6	-	F001	F001	AK, WG	2, 26, 43, 82
			xylene	1330-20-7	F003	F003	-	AK, WG	2, 26, 43, 82
RF, RF	090	DIRT (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001	-	-	PK	3
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-	-	PK	3
			1-butanol	71-36-3	F003	-	-	PK	3
			carbon tetrachloride	56-23-5	F001	-	-	PK	3
			Methanol	67-56-1	F003	-	-	PK	3
			methylene chloride	75-09-2	F002	-	-	PK	3

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			nitrobenzene	98-95-3	F004	-		PK	3
			tetrachloroethylene (perclene)	127-18-4	F001	-		PK	3
			trichloroethylene (TCE)	79-01-6	F001	-		PK	3
			Xylene	1330-20-7	F003	-		PK	3
RF, RF	095	SLUDGE (UNK)	none identified	-	-	-		-	
RF, RF	241	AMERICIUM PROCESS RESIDUE (MW)	Lead	7439-92-1	D008	D008		AK, WG	2, 26
			methylene chloride	75-09-2	-	F002		WG	2
			nitrates	-	D001	-		AK, PK	5, 26
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		AK, PK	5, 26
RF, RF	290	FILTER SLUDGE (MW)	xylene	1330-20-7	-	F003		WG	2
			1,1,1-trichloroethane (TCA)	71-55-6	F001	-		PK	3
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-		PK	3
			1-butanol	71-36-3	F003	-		PK	3
			cadmium	7440-43-9	D006	-		PK	3
			carbon tetrachloride	56-23-5	F001	-		PK	3
			lead	7439-92-1	D008	-		PK	3
			methanol	67-56-1	F003	-		PK	3
			methylene chloride	75-09-2	F002	-		PK	3
		(see Note 3)	potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		PK	3
RF, RF	292	CEMENTED SLUDGE (MW)	xylene	1330-20-7	F003	-		PK	3
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, PK,	1, 9, 26, 44
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F001/F002	-	F001/F002	AK	44
			1-butanol	71-36-3	F003	-		PK	3
			acetone	67-64-1	F003	-	F003	AK	44
			arsenic	7440-38-2	D004	-	D004	AK, PK	11, 26, 44
			barium	7440-39-3	D005	-	D005	AK, PK	11, 26, 44
			benzene	74-43-2	F005	-	F005	AK	44
			cadmium	7440-43-9	D006	-	D006	AK, PK, SS	11, 26, 44
			carbon tetrachloride	56-23-5	-	-	F001/F002	AK	44
			chloroform	67-66-3	-	-	D022	HSG	44

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			chromium	7440-47-3	D007	-	D007	AK, PK	11, 26, 44
			cyanide cleaning bath solutions	-	F009	-	F009	AK	44
			cyanide plating bath solutions	-	F007	-	F007	AK	44
			electroplating sludges	-	F006	-	F006	AK	44
			lead	7439-92-1	D008	-	D008	AK, PK, SS	11, 26, 44
			mercury	7439-97-6	D009	-	D009	AK, PK	11, 26, 44
			methanol	67-56-1	F003	-	F003	PK	3, 44
			methylene chloride	75-09-2	F002	-	F002	AK	26, 44
	(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-		AK, PK	7, 26, 44
			selenium	7782-49-2	D010	-	D010	AK, PK	11, 26, 44
			silver	7440-22-4	D011	-	D011	AK, PK	11, 26, 44
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	F001/F002	AK	26, 44
			toluene	108-88-3	F005	-	F005	AK, PK, HSG	1, 11, 26, 44
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	44
			xylene	1330-20-7	F003	-	F003	AK	26, 44
RF, RF	300	GRAPHITE MOLDS (ROW) (Only drums with prefix 0012)	none identified		-	-		AK	26, 36
			1,1,1-trichloroethane (TCA)	71-55-6	-	-		HSG	9
RF, RF	300	GRAPHITE MOLDS (MW) (All prefixes identified in AK for this IDC except 0012)	1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	HSG	37, 70
			1,1-dichloroethylene	75-35-4	-	-	D029	HSG	37, 70
			methylene chloride	75-09-2	F002	-	F002	HSG	37, 70
			carbon tetrachloride	56-23-5			F001		70
			lead	7439-92-1	-	-	D008	PK	37, 70
			toluene	108-88-3	-	-	F005	HSG	37, 70
			trichloroethylene (TCE)	79-01-06	-	-	F001/F002	HSG	37, 70
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		70
RF, RF	301	GRAPHITE CORES (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	HSG	9, 37, 70
			1,1-dichloroethylene	75-35-4	-	-	D029	HSG	37, 70
			methylene chloride	75-09-2	-	-	F002	HSG	37, 70
			carbon tetrachloride	56-23-5			F001		70
			lead	7439-92-1	-	-	D008	PK	37, 70
			toluene	108-88-3	-	-	F005	HSG	37, 70
			trichloroethylene (TCE)	79-01-06	-	-	F001/F002	HSG	37, 70

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			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		70
RF, RF	302	BENELEX AND PLEXIGLAS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001	F001		WG, HSG	1, 2, 9
			barium	7440-39-3	D005	-		AK	26
			carbon tetrachloride	56-23-5	-	F001		WG, HSG	2, 9
			lead	7439-92-1	D008	-		AK, WG	2, 26
			toluene	108-88-3	-	-		HSG	1
			trichloroethylene (TCE)	79-01-6	F001	F001		WG, PK, HSG	1, 2, 9
RF, RF	303	SCARFED GRAPHITE CHUNKS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	HSG	26, 37, 70
			1,1-dichloroethylene	75-35-4	-	-	D029	HSG	37, 70
			methylene chloride	75-09-2	-	-	F001/F002	HSG	37, 70
			carbon tetrachloride	56-23-5			F001		70
			lead	7439-92-1	-	-	D008	PK	37, 70
			toluene	108-88-3	-	-	F005	HSG	37, 70
			trichloroethylene (TCE)	79-01-06	-	-	F001/F002	HSG	37, 70
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		70
RF, RF	310	GRAPHITE SCARFINGS (ROW)	1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002	HSG	26, 37, 70
			1,1-dichloroethylene	75-35-4	-	-	D029	HSG	37, 70
			methylene chloride	75-09-2	-	-	F001/F002	HSG	37, 70
			carbon tetrachloride	56-23-5			F001		70
			lead	7439-92-1	-	-	D008	PK	37, 70
			toluene	108-88-3	-	-	F005	HSG	37, 70
			trichloroethylene (TCE)	79-01-06	-	-	F001/F002	HSG	37, 70
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		70
RF, RF	311	GRAPHITE HEELS (UNK)	none identified	-	-	-		-	
RF, RF	312	COARSE GRAPHITE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, HSG	1, 9, 26, 37, 70
			1,1-dichloroethylene	75-35-4	-	-	D029	HSG	37, 70
			carbon tetrachloride	56-23-5			F001		70
			lead	7439-92-1	-	-	D008	PK	37, 70
			methylene chloride	75-09-2	F002	-	F002	AK, HSG	1, 9, 26, 37, 70
			toluene	108-88-3	-	-	F005	HSG	37, 70
			trichloroethylene (TCE)	79-01-06	-	-	F001/F002	HSG	37, 70

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			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		70
RF, RF	320	HEAVY NON-SPECIAL SOURCE METAL (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		58
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, WG	2, 26, 58
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	WG	2, 58
			1,2-dichloroethane	107-06-2	-	-	D028		58
			arsenic	7440-38-2	-	-	D004		58
			barium	7440-39-3	-	-	D005		58
			benzene	71-43-2	-	-	F005		58
			cadmium	7440-43-9	-	-	D006		58
			carbon disulfide	71-15-0	-	-	F005		58
			carbon tetrachloride	56-23-5	F001	-	F001	AK, WG	2, 26, 58
			chloroform	67-66-3	-	-	D022		58
			chromium	7440-47-3	-	-	D007		58
			cyanide cleaning bath solutions	-	-	-	F009		58
			cyanide plating bath solutions	-	-	-	F007		58
			electroplating sludges	-	-	-	F006		58
			lead	7439-92-1	D008	D008	D008	AK, WG, PK	2, 4, 26, 58
			mercury	7439-97-6	-	-	D009		58
			methyl ethyl ketone	96-2-97	-	-	F005		58
			methylene chloride	75-09-2	-	-	F002	WG	2, 58
			selenium	7782-49-2	-	-	D010		58
			silver	7440-22-4	-	-	D011		58
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002		58
			toluene	108-88-3	F005	-	F005	AK, HSG	1, 26, 58
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002		58
RF, RF	321	LEAD (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		58
			1,1,1-trichloroethane (TCA)	71-55-6	-	-	F001/F002		58
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002		58
			1,2-dichloroethane	107-06-2	-	-	D028		58
			arsenic	7440-38-2	-	-	D004		58
			barium	7440-39-3	-	-	D005	PK	11, 58

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			benzene	71-43-2	-	-	F005		58
			cadmium	7440-43-9	-	-	D006	PK	11, 58
			carbon disulfide	71-15-0	-	-	F005		58
			carbon tetrachloride	56-23-5	F001	-	F001	PK	58
			chloroform	67-66-3	-	-	D022		58
			chromium	7440-47-3	D007	-	D007		58
			cyanide cleaning bath solutions	-	-	-	F009		58
			cyanide plating bath solutions	-	-	-	F007		58
			electroplating sludges	-	-	-	F006		58
			lead	7439-92-1	D008	D008	D008	AK, WG, PK	2, 4, 26, 58
			mercury	7439-97-6	-	-	D009		58
			methyl ethyl ketone	96-2-97	-	-	F005		58
			methylene chloride	75-09-2	F002	-	F002		58
			potential corrosives if liquids exceed the WIPP-WAC limit	-	-	-	-	PK	11, 58
			selenium	7782-49-2	-	-	D010		58
			silver	7440-22-4	-	-	D011		58
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002		58
			toluene	108-88-3	-	-	F005		58
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002		58
RF, RF	328	FUL-FLO INCINERATOR FILTERS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		57
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, HSG	9, 26, 57
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-	F001/F002	AK, PK	3, 26, 57
			1,2-dichloroethane	107-06-2	-	-	D028		57
			arsenic	7440-38-2	-	-	D004	AK	57
			barium	7440-39-3	D005	-	D005	AK	26, 57
			benzene	71-43-2	-	-	F005		57
			cadmium	7440-43-9	-	-	D006	AK	57
			carbon disulfide	71-15-0	-	-	F005		57
			carbon tetrachloride	56-23-5	F001	-	F001	PK	3, 57
			chloroform	67-66-3	-	-	D022		57
			chromium	7440-47-3	D007	-	D007	AK	26, 57
			cyanide cleaning bath solutions	-	-	-	F009		57

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			cyanide plating bath solutions	-	-	-	F007		57
			electroplating sludges	-	-	-	F006		57
			lead	7439-92-1	D008	-	D008	AK	26, 57
			mercury	7439-97-6	-	-	D009	AK	57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	F002	-	F002	AK, PK	3, 26, 57
			potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	AK, PK	3, 26, 57
			selenium	7782-49-2	-	-	D010	AK	57
			silver	7440-22-4	D011	-	D011	AK	26, 57
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002		57
			toluene	108-88-3	F005	-	F005	AK	26, 57
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002		57
			xylene	1330-20-7	F003	-	-	AK	26, 57
RF, RF	330	PAPER AND RAGS - DRY (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 47, 71
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG	1, 2, 26, 47, 71
			1,2-dichloroethane	107-06-2			D028		71
			1,1-dichloroethylene	75-35-4			D029		71
			2-ethoxyethanol	110-80-5			F005		71
			acetone	67-64-1	F003	-		AK	26, 47
			arsenic	7440-38-2			D004		71
			barium	7440-39-3			D005		71
			benzene	71-43-2	-	-	F005	AK	26, 47, 71
			cadmium	7440-43-9	D006	-	D006	AK	26, 47, 71
			carbon disulfide	75-15-0	F005	-	F005	AK	26, 47, 71
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 26, 47, 71
			chlorobenzene	108-90-7			F002		71
			chloroform	67-66-3	D022	-	D022	AK, HSG	26, 47, 71
			chromium	7440-47-3	D007	-	D007	AK	26, 47, 71
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 47, 71
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 47, 71
			cyclohexane	110-82-7	-	-		PK	11

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			electroplating sludges	-	F006	-	F006	AK	26, 47, 71
			ethyl benzene	100-41-4	F003	-		PK	11
			isobutanol	78-83-1			F005		71
			lead	7439-92-1	D008	-	D008	AK, WG	2, 26, 47, 71
			methanol	67-56-1	F003	-		AK	26, 47
			methylene chloride	75-09-2	F002	F002	F002	AK, WG, HSG	1, 2, 9, 26, 47, 71
			mercury	7439-97-6	-	-	D009	AK	47, 71
			methyl ethyl ketone	78-93-3			F005		71
			pyridine	110-86-1			F005		71
			selenium	7782-49-2			D010		71
			silver	7440-22-4	D011	-	D011	AK	26, 47, 71
			tetrachloroethylene (perclene)	127-18-4	-	-	F002	AK	26, 47, 71
			toluene	108-88-3	F005	-	F005	AK, PK, HSG	11, 26, 47, 71
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F002	AK, WG, HSG	1, 2, 26, 47, 71
			xylene	1330-20-7	F003	-		AK, WG	2, 26, 47
RF, RF	335	ABSOLUTE 8x8 FILTERS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		57
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 26, 49, 57
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001/F002	WG	2, 49, 57
			1,2-dichloroethane	107-06-2	-	-	D028		57
			arsenic	7440-38-2	-	-	D004	PK	11, 57
			asbestos	1332-21-4	-	-	-	PK	7
			barium	7440-39-3	D005	-	D005	AK, PK	11, 26, 49, 57
			benzene	71-43-2	-	-	F005	AK	49, 57
			cadmium	7440-43-9	-	-	D006	PK	11, 57
			carbon disulfide	71-15-0	-	-	F005		57
			carbon tetrachloride	56-23-5	-	F001	F001	WG	2, 49, 57
			chloroform	67-66-3	-	-	D022	AK	49, 57
			chromium	7440-47-3	D007	-	D007	AK, PK	11, 26, 49, 57
			cyanide	57-12-5	-	-	-	PK	11
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 49, 57
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 49, 57
			electroplating sludges	-	F006	-	F006	AK	26, 49, 57

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			lead	7439-92-1	D008	-	D008	AK, PK	11, 26, 49, 57
			mercury	7439-97-6	-	-	D009	PK	11, 49, 57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	F002	F002	F002	AK, WG	2, 26, 49, 57
			nitrates (only for waste generated in building 374 after 1984)	-	D001	-	-	AK, WG	2, 26, 49, 57
			selenium	7782-49-2	-	-	D010	PK	11, 57
			silver	7440-22-4	D011	-	D011	AK, PK	11, 26, 49, 57
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	F001/F002	AK	1, 26, 49, 57
			toluene	108-88-3	F005	-	F005	AK	26, 49, 57
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	1, 26, 49, 57
			xylene	1330-20-7	F003	-	-	AK	26, 49, 57
RF, RF	336	PAPER AND RAGS - MOIST (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 47, 71
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG	1, 2, 9, 26, 47, 71
			1,2-dichloroethane	107-06-2			D028		71
			1,1-dichloroethylene	75-35-4			D029		71
			2-ethoxyethanol	110-80-5			F005		71
			acetone	67-64-1	-	-		AK	26, 47, 71
			arsenic	7440-38-2			D004		71
			barium	7440-39-3			D005		71
			benzene	71-43-2	-	-	F005	AK	26, 47, 71
			cadmium	7440-43-9	D006	-	D006	AK	26, 47, 71
			carbon disulfide	75-15-0	F005	-	F005	AK	26, 47, 71
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 26, 47, 71
			chlorobenzene	108-90-7			F002		71
			chloroform	67-66-3	D022	-	D022	AK, HSG	1, 26, 47, 71
			chromium	7440-47-3	D007	-	D007	AK	26, 47, 71
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 47, 71
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 47, 71
			electroplating sludges	-	F006	-	F006	AK	26, 47, 71
			isobutanol	78-83-1			F005		71
			lead	7439-92-1	D008	-	D008	AK, WG	2, 26, 47, 71

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			methanol	67-56-1	F003	-		AK	26, 47
			methylene chloride	75-09-2	F002	F002	F002	AK, WG, HSG	1, 2, 26, 47, 71
			methyl ethyl ketone	78-93-3			F005		71
			mercury	7439-97-6	-	-	D009	AK	47, 71
			pyridine	110-86-1			F005		71
			nitrates (only for waste generated prior to 1974)	-	D001	-		AK, PK	7, 26, 47
	(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit in waste packaged before 1974	-	D002	-		AK, PK	3, 26, 47
			selenium	7782-49-2			D010		71
			silver	7440-22-4	D011	-	D011	AK	26, 47, 71
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	F002	AK	1, 26, 47, 71
			toluene	108-88-3	F005	-	F005	AK, PK, HSG	1, 11, 26, 47, 71
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F002	AK, WG, HSG	1, 2, 26, 47, 71
			xylene	1330-20-7	F003	-		AK, WG	2, 26, 47, 71
RF, RF	337	PLASTIC, TEFLON, WASH, PVC (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 48, 71
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F002	WG	2, 9, 26, 48, 71
			1,2-dichloroethane	107-06-2			D028		71
			1,1-dichloroethylene	75-35-4			D029		71
			2-ethoxyethanol	110-80-5			F005		71
			acetone	67-64-1	-	-		AK	26, 48
			arsenic	7440-38-2			D004		71
			barium	7440-39-3			D005		71
			benzene	71-43-2	-	-	F005	AK	26, 48, 71
			cadmium	7440-43-9	D006	-	D006	AK	26, 48, 71
			carbon disulfide	75-15-0			F005		71
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	2, 26, 48, 71
			chlorobenzene	108-90-7			F002		71
			chloroform	67-66-3	D022	-	D022	AK, HSG	1, 26, 48, 71
			chromium	7440-47-3	D007	-	D007	AK	26, 48, 71

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 48, 71
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 48, 71
			cyclohexane	110-82-7	-	-	-	HSG	1, 48
			electroplating sludges	-	F006	-	F006	AK	26, 48, 71
			isobutanol	78-83-1	-	-	F005		71
			lead	7439-92-1	D008	-	D008	AK, WG	2, 26, 48, 71
			methanol	67-56-1	-	-	-	AK	48
			methylene chloride	75-09-2	F002	F002	F002	AK, WG	2, 9, 26, 48, 71
			mercury	7439-97-6	-	-	D009	AK	48, 71
			methyl ethyl ketone	78-93-3	-	-	F005		71
			pyridine	110-86-1	-	-	F005		71
			selenium	7782-49-2	-	-	D010		71
			silver	7440-22-4	D011	-	D011	AK	26, 48, 71
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	F002	AK	26, 48, 71
			toluene	108-88-3	F005	-	F005	AK	26, 48, 71
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F001	AK, WG, HSG	1, 2, 9, 26, 48, 71
			xylene	1330-20-7	F003	-	-	AK, WG, HSG	2, 26, 48, 71
RF, RF	338	INSULATION AND CWS FILTER MEDIA (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		57
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 26, 57
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001/F002	WG	2, 57
			1,2-dichloroethane	107-06-2	-	-	D028		57
			asbestos	1332-21-4	-	-	-	PK	7
			arsenic	7440-38-2	-	-	D004	PK	57
			barium	7440-39-3	D005	-	D005	AK	26, 57
			benzene	71-43-2	-	-	F005		57
			cadmium	7440-43-9	-	-	D006		57
			carbon disulfide	71-15-0	-	-	F005		57
			carbon tetrachloride	56-23-5	F001/F002	F001	F001	AK, WG	2, 26, 57
			chloroform	67-66-3	-	-	D022		57
			chromium	7440-47-3	D007	-	D007	AK	26, 57
			cyanide cleaning bath solutions	-	-	-	F009		57
			cyanide plating bath solutions	-	-	-	F007		57

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			electroplating sludges	-	-	-	F006		57
			lead	7439-92-1	D008	-	D008	AK	26, 57
			mercury	7439-97-6	-	-	D009		57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	F001/F002	F002	F002	AK, WG	2, 26, 57
			nitrates (only for waste generated in building 374 after 1984)	-	D001	-	-	AK, PK	3, 5, 26, 57
			selenium	7782-49-2	-	-	D010		57
			silver	7440-22-4	D011	-	D011	AK	26, 57
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002		57
			toluene	108-88-3	-	-	F005		57
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK, HSG	1, 26, 57
RF, RF	339	LEADED RUBBER GLOVES AND APRONS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		60
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, WG, HSG	1, 2, 9, 26, 51, 52, 60
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-	F001/F002	AK, PK,	1, 11, 26, 51, 52, 60
			1,2-dichloroethane	107-06-2	-	-	D028		60
			acetone	67-64-1	-	-	-	AK	51, 52, 60
			benzene	71-43-2	-	-	F005	AK	51, 52, 60
			carbon disulfide	71-15-0	-	-	F005		60
			carbon tetrachloride	56-23-5	F001	-	F001	AK, WG, HSG	1, 2, 9, 26, 51, 52, 60
			chloroform	67-66-3	D022	-	D022	AK, HSG	1, 26, 51, 52, 60
			cyclohexane	110-82-7	-	-	-	HSG	1
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 51, 52, 60
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 51, 52, 60
			electroplating sludges	-	F006	-	F006	AK	26, 51, 52, 60
			lead	7439-92-1	D008	D008	D008	AK, WG	2, 3, 51, 60
			mixed lead nitrate and organic material	10099-74-8	D001	-	-	AK	27, 51, 52
			methanol	67-56-1	-	-	-	AK	51, 52, 60
			methyl ethyl ketone	96-2-97	-	-	F005		60

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			methylene chloride	75-09-2	F001/F002	-	F002	AK, WG, HSG	1, 2, 9, 26, 51, 52, 60
			tetrachloroethylene	-			F001/F002	AK	51, 52, 60
			toluene	108-88-3	F005	-	F005	AK, PK	11, 26, 51, 60
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK, WG	2, 9, 51, 52, 60
			xylene	1330-20-7			-	AK	51, 52, 60
RF, RF	33A	WETP BIN PROGRAM - COMBUSTIBLES A (MW) (RF IDCs 335, 336, 337, and 339)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG, PK	33
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG, PK	33
			arsenic	7440-38-2	D004	-		PK	33
			asbestos	1332-21-4	-	-		PK	33
			barium	7440-39-3	D005	-		AK, PK	33
			cadmium	7440-43-9	D006	-		AK, PK	33
			carbon tetrachloride	56-23-5	F001	F001		WG, PK	33
			chloroform	67-66-3	D022	-		AK, HSG, PK	33
			chromium	7440-47-3	D007	-		AK, PK	33
			cyanide	57-12-5	-	-		PK	33
			cyanide cleaning bath solutions	-	F009	-		AK, PK	33
			cyanide plating bath solutions	-	F007	-		AK, PK	33
			cyclohexane	110-82-7	-	-		PK, HSG	33
			electroplating sludges	-	F006	-		AK, PK	33
			lead	7439-92-1	D008	D008		AK, WG, PK	33
			mercury	7439-97-6	D009	D009		PK	33
			methylene chloride	75-09-2	-	F002		WG, HSG, PK	33
			mixed lead nitrate and organic material	10099-74-8	D001	-		AK, PK	33
			nitrates (only for waste generated in building 374 after 1984 [335], only for waste generated prior to 1974 [336])	-	D001	-		AK, WG, PK	33
		(see Note 3)	potential corrosives if liquids exceed the WIPP WAC limit in waste packaged before 1974	-	D002	-		PK	33
			selenium	7782-49-2	D010	-		PK	33

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RF, RF	33B	WETP BIN PROGRAM - COMBUSTIBLES B (MW) (RF IDCs 330, 337, and 339)	silver	7440-22-4	D011	-		AK, PK	33			
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	AK, HSG, PK	33				
			toluene	108-88-3	F005	-	PK	33				
			trichloroethylene (TCE)	79-01-6	F001/F002	-	HSG, PK	33				
			xylene	1330-20-7	F003	-	AK, PK	33				
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	AK, WG, HSG, PK	33				
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	WG, PK	33				
			cadmium	7440-43-9	D006	-	AK, PK	33				
			carbon tetrachloride	56-23-5	F001	F001	WG, PK	33				
			chloroform	67-66-3	D022	-	AK, HSG, PK	33				
			chromium	7440-47-3	D007	-	AK, PK	33				
			cis-1,2-dichloroethylene	156-59-2	-	-	PK	33				
			cyanide cleaning bath solutions	-	F009	-	AK, PK	33				
			cyanide plating bath solutions	-	F007	-	AK, PK	33				
			cyclohexane	110-82-7	-	-	PK, HSG	33				
			electroplating sludges	-	F006	-	AK, PK	33				
			ethyl benzene	100-41-4	F003	-	PK	33				
			lead	7439-92-1	D008	D008	AK, WG, PK	33				
			methylene chloride	75-09-2	-	F002	WG, HSG, PK	33				
			mixed lead nitrate and organic material	10099-74-8	D001	-	AK, PK	33				
			RF, RF	360	INSULATION (MW)	silver	7440-22-4	D011	-		AK, PK	33
						tetrachloroethylene (perclene)	127-18-4	F001/F002	-	AK, HSG, PK	33	
						toluene	108-88-3	F005	-	PK	33	
trans-1,2-dichloroethylene	156-60-5	-				-						
trichloroethylene (TCE)	79-01-6	F001/F002				-	HSG, PK	33				
xylene	1330-20-7	F003				-	AK, PK	33				
1,1-dichloroethylene	75-35-4	-				-	D029	57				
1,1,1-trichloroethane (TCA)	71-55-6	F001/F002				-	F001/F002	AK, PK	3, 26, 57			
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002				-	F002/F002	PK	3, 57			
1,2-dichloroethane	107-06-2	-				-	D028	57				
arsenic	7440-38-2	-				-	D004	57				

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			asbestos	1332-21-4	-	-	-	PK	7
			barium	7440-39-3	D005	-	D005	AK	26, 57
			benzene	71-43-2	-	-	F005		57
			cadmium	7440-43-9	-	-	D006		57
			carbon disulfide	71-15-0	-	-	F005		57
			carbon tetrachloride	56-23-5	F001	-	F001	AK, PK	3, 26, 57
			chloroform	67-66-3	-	-	D022		57
			chromium	7440-47-3	D007	-	D007	AK	26, 57
			cyanide cleaning bath solutions	-	F009	-	F009	AK, PK	26, 57
			cyanide plating bath solutions	-	F007	-	F007	AK, PK	26, 57
			electroplating sludges	-	F006	-	F006	AK, PK	26, 57
			lead	7439-92-1	D008	-	D008	AK	26, 57
			mercury	7439-97-6	-	-	D009		57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	F001/F002	-	F002	AK, PK	3, 26, 57
			selenium	7782-49-2	-	-	D010		57
			silver	7440-22-4	D011	-	D011	AK	26, 57
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002		57
			toluene	108-88-3	-	-	F005		57
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	26, 57
RF, RF	361	INSULATION HEEL (ROW)	none identified	-	-	-		PK	7
RF, RF	368	MAGNESIUM OXIDE CRUCIBLES (ROW)	none identified	-	-	-		PK	11
RF, RF	370	LECO CRUCIBLE (ROW)	none identified	-	-	-		AK, WG	4, 26
RF, RF	371	FIRE BRICK (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, HSG	1, 9, 26, 50, 65
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	50, 53, 65
			arsenic	7440-38-2	D004	-	D004	AK, PK	11, 26, 50, 65
			1,2-dichloroethane	107-06-2	-	-	D028		65
			1,1-dichloroethylene	75-35-4	D029	-	D029	AK, HSG	65
			barium	7440-39-3	D005	-	D005	AK, PK	11, 26, 50, 65
			benzene	71-43-2	-	-	F005	AK	50, 53, 65
			cadmium	7440-43-9	D006	-	D006	AK, PK	11, 26, 50, 65
			carbon tetrachloride	56-23-5	F001/F002	-	F001	AK	1, 26, 50, 65

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			chloroform	67-66-3	D022	-	D022	AK, HSG, PK	65
			chromium	7440-47-3	D007	-	D007	AK, PK	11, 26, 50, 65
			lead	7439-92-1	D008	-	D008	AK, PK	11, 26, 50, 65
			mercury	7439-97-6	D009	-	D009	AK, PK	11, 26, 50, 65
			selenium	7782-49-2	D010	-	D010	PK	65
			silver	7440-22-4	D011	-	D011	AK	65
			methanol	67-56-1	-	-	-	AK	50, 53, 65
			methylene chloride	75-09-2	F001/F002	-	F002	AK	9, 26, 50, 65
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	50, 53, 65
			toluene	108-88-3	F005	-	F005	AK	26, 50, 65
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	PK, HSG	1, 9, 50, 65
			xylene	1330-20-7	F003	-	-	AK	26, 50, 65
RF, RF	372	GRIT (ROW)	beryllium (not beryllium powder)	7440-41-7	-	-	-	PK	7
			chromium	7440-47-3	-	D007	-	AK	26
RF, RF	374a	DIRT	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	-	AK, WG, HSG	1, 2, 26
		/697	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	-	AK, WG	2, 26
			acetone	67-64-1	F003	-	-	AK	26
			arsenic	7440-38-2	D004	-	-	AK, PK	11, 26
			barium	7440-39-3	D005	-	-	AK, PK	11, 26
			benzene	71-43-2	D018	-	-	AK	26
			cadmium	7440-43-9	D006	-	-	AK, PK	11, 26
			carbon tetrachloride	56-23-5	F001	F001	-	WG, HSG	1, 2
			chromium	7440-47-3	D007	-	-	AK, PK	11, 26
			cyanide	57-12-5	-	-	-	PK	11
			cyanide cleaning bath solutions		F009	-	-	AK	26
			cyanide plating bath solutions	-	F007	-	-	AK	26
			electroplating sludges	-	F006	-	-	AK	26
			lead	7439-92-1	D008	-	-	AK, PK	11, 26
			mercury	7439-97-6	D009	-	-	AK, PK	11, 26
			methanol	67-56-1	F003	-	-	PK	3
			methyl ethyl ketone	75-09-2	F005	-	-	AK	26
			methylene chloride	75-09-2	F001/F002	F002	-	AK, WG	2, 26

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			nitrobenzene	98-95-3	F004	-		PK	3
			selenium	7782-49-2	D010	-		AK, PK	11, 26
			silver	7440-22-4	D011	-		AK, PK	11, 26
			tetrachloroethylene (perclene)	127-18-4	F001	-		PK	3
			toluene	108-88-3	F005	-		AK, HSG	1, 26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK, HSG	1, 26
RF, RF	374	BLACKTOP, CONCRETE, DIRT, AND SAND (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG	1, 2, 26
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002		AK, WG	2, 26
			acetone	67-64-1	F003	-		AK	26
			arsenic	7440-38-2	D004	-		AK, PK	11, 26
			barium	7440-39-3	D005	-		AK, PK	11, 26
			benzene	71-43-2	D018	-		AK	26
			cadmium	7440-43-9	D006	-		AK, PK	11, 26
			carbon tetrachloride	56-23-5	F001	F001		WG, HSG	1, 2
			chromium	7440-47-3	D007	-		AK, PK	11, 26
			cyanide	57-12-5	-	-		PK	11
			cyanide cleaning bath solutions		F009	-		AK	26
			cyanide plating bath solutions	-	F007	-		AK	26
			electroplating sludges	-	F006	-		AK	26
			lead	7439-92-1	D008	-		AK, PK	11, 26
			mercury	7439-97-6	D009	-		AK, PK	11, 26
			methanol	67-56-1	F003	-		PK	3
			methyl ethyl ketone	75-09-2	F005	-		AK	26
			methylene chloride	75-09-2	F001/F002	F002		AK, WG	2, 26
			nitrobenzene	98-95-3	F004	-		PK	3
			selenium	7782-49-2	D010	-		AK, PK	11, 26
			silver	7440-22-4	D011	-		AK, PK	11, 26
			tetrachloroethylene (perclene)	127-18-4	F001	-		PK	3
			toluene	108-88-3	F005	-		AK, HSG	1, 26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK, HSG	1, 26

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RF, RF	375	OIL-DRI (MW) (Residues from incinerator)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG	2, 4, 26			
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002		AK, WG	2, 4, 26			
			acetone	67-64-1	F003	-		AK	26			
			arsenic	7440-38-2	D004	-		AK	26			
			barium	7440-39-3	D005	-		AK	26			
			cadmium	7440-43-9	D006	-		AK	26			
			carbon tetrachloride	56-23-5	F001	F001		AK, WG	2, 4, 26			
			chloroform	67-66-3	D022	-		AK	26			
			chromium	7440-47-3	D007	-		AK	26			
			lead	7439-92-1	D008	-		AK	26			
			mercury	7439-97-6	D009	-		AK	26			
			methanol	67-56-1	F003	-		AK	26			
			methylene chloride	75-09-2	F001/F002	F002		AK, WG	2, 26			
			selenium	7782-49-2	D010	-		AK	26			
			silver	7440-22-4	D011	-		AK	26			
			toluene	108-88-3	F005	-		AK	26			
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK	26			
			xylene	1330-20-7	F003	-		AK	26			
			RF, RF	376	CEMENTED INSULATION AND FILTER MEDIA (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		57
						1,1,1-trichloroethane (TCA)	71-55-6	F001	F001	F001/F002	AK, WG, HSG	1, 2, 26, 49, 57
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002				F002	F001/F002	WG	2, 49, 57			
1,2-dichloroethane	107-06-2	-				-	D028		57			
arsenic	7440-38-2	-				-	D004		57			
asbestos	1332-21-4	-				-	-	PK	7			
barium	7440-39-3	D005				-	D005	AK	26, 49, 57			
benzene	71-43-2	F005				-	F005	AK	1, 26, 49, 57			
cadmium	7440-43-9	-				-	D006		57			
carbon disulfide	71-15-0	-				-	F005		57			
carbon tetrachloride	56-23-5	F001				F001	F001	AK, WG	2, 26, 49, 57			
chloroform	67-66-3	-				-	D022	AK	49, 57			
chromium	7440-47-3	D007				-	D007	AK	26, 49, 57			
cyanide cleaning bath solutions	-	F009				-	F009	AK	26, 49, 57			

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RF, RF	377	COARSE FIRE BRICK (MW)	cyanide plating bath solutions	-	F007	-	F007	AK	26, 49, 57
			electroplating sludges	-	F006	-	F006	AK	26, 49, 57
			lead	7439-92-1	D008	-	D008	AK	26, 49, 57
			mercury	7439-97-6	-	-	D009	AK	49, 57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	F001/F002	F002	F002	AK, WG	2, 26, 49, 57
			selenium	7782-49-2	-	-	D010		57
			silver	7440-22-4	D011	-	D011	AK	26, 49, 57
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	49, 57
			toluene	108-88-3	F005	-	F005	AK	26, 49, 57
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	49, 57
			xylene	1330-20-7	F003	-	-	AK	26, 49, 57
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, HSG	26, 50, 65
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002	AK	50, 53, 65
			1,2-dichloroethane	107-06-2	-	-	D028	AK	65
			1,1-dichloroethylene	75-35-4	D029	-	D029	AK, HSG	65
			acetone	67-64-1	F003			AK	50, 53
			arsenic	7440-38-2	D004	-	D004	AK, PK	11, 26, 50, 65
			barium	7440-39-3	D005	-	D005	AK, PK	11, 26, 50, 65
			benzene	71-43-2	-	-	F005	AK	50, 53, 65
			cadmium	7440-43-9	D006	-	D006	AK, PK	11, 26, 50, 65
			carbon tetrachloride	56-23-5	F001/F002	-	F001	AK	1, 26, 50, 53, 65
			chloroform	67-66-3	D022	-	D022	AK, HSG, PK	65
			chromium	7440-47-3	D007	-	D007	AK, PK	11, 26, 50, 65
			lead	7439-92-1	D008	-	D008	AK, PK	11, 26, 50, 65
			mercury	7439-97-6	D009	-	D009	AK, PK	11, 26, 50, 65
			methanol	67-56-1	-	-		AK, PK	50, 53, 65
			methylene chloride	75-09-2	F001/F002	-	F002	AK	26, 50, 65
			selenium	7782-49-2	D010	-	D010	AK, PK	11, 26, 50, 63, 65
			silver	7440-22-4	D011	-	D011	AK, PK	11, 26, 50, 65
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	50, 53, 65

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			toluene	108-88-3	F005	-	F005	AK, PK	11, 26, 50, 65
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	PK, HSG	1, 9, 50, 53, 65
			xylene	1330-20-7	F003	-		AK	26, 50
RF, RF	391	CRUCIBLES AND SAND (ROW)	none identified	-	-	-		AK, PK	7, 26
RF, RF	392	SAND, SLAG, AND CRUCIBLE (ROW)	none identified	-	-	-		AK	26
RF, RF	393	SAND, SLAG, AND CRUCIBLE HEELS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	-		PK	11
			carbon tetrachloride	56-23-5	-	-		PK	11
			chloroform	67-66-3	-	-		PK	11
			chromium	7440-47-3	D007	-		AK, PK	11, 26
			methylene chloride	75-09-2	-	-		PK	11
			toluene	108-88-3	-	-		PK	11
RF, RF	409	MOLTEN SALT – 30% UNPULVERIZED (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-		AK, HSG	1, 9, 26
			1,2-dichloroethane	107-06-2	D028	-		PK, HSG	9, 11
RF, RF	410	MOLTEN SALT – 30% PULVERIZED (ROW)	none identified	-	-	-		WG	13
RF, RF	411	ELECTROREFINING SALT (ROW) (see Note 1)	none identified	-	-	-		AK	26
RF, RF	412	GIBSON SALTS (ROW)	none identified	-	-	-		AK, PK	7, 26
RF, RF	414	DIRECT OXIDE REDUCTION SALT (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-		AK, HSG	1, 9, 26
			carbon tetrachloride	56-23-5	F001	-		AK, HSG	1, 26
RF, RF	416	ZINC MAGNESIUM ALLOY METALS (ROW)	none identified	-	-	-		AK, PK, WG	7, 13, 26
RF, RF	420	ASH, INCINERATOR (VIRGIN) (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, PK, WG	11, 13, 26
			arsenic	7440-38-2	D004	D004		AK, PK, WG	11, 13, 26
			barium	7440-39-3	D005	D005		AK, PK, WG	11, 13, 26
			cadmium	7440-43-9	D006	D006		AK, PK, WG	11, 13, 26
			chromium	7440-47-3	D007	D007		AK, PK, WG	11, 13, 26
			lead	7439-92-1	D008	D008		AK, PK, WG	11, 13, 26
			mercury	7439-97-6	D009	D009		AK, PK, WG	11, 13, 26
			methylene chloride	75-09-2	F001/F002	F002		AK, PK, WG	11, 13, 26
			selenium	7782-49-2	D010	D010		AK, PK, WG	11, 13, 26
			silver	7440-22-4	D011	D011		AK, PK, WG	11, 13, 26

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RF, RF	421	ASH HEELS (MW)	toluene	108-88-3	F005	F005		AK, PK, WG	11, 13, 26			
			xylene	1330-20-7	F003	-	AK	26				
			1,1,1-trichloroethane (TCA)	71-55-6	-	F001	PK, WG	11, 13				
			arsenic	7440-38-2	-	D004	PK, WG	11, 13				
			barium	7440-39-3	-	D005	PK, WG	11, 13				
			cadmium	7440-43-9	-	D006	PK, WG	11, 13				
			chromium	7440-47-3	-	D007	PK, WG	11, 13				
			lead	7439-92-1	-	D008	PK, WG	11, 13				
			mercury	7439-97-6	-	D009	PK, WG	11, 13				
			methylene chloride	75-09-2	-	F002	PK, WG	11, 13				
			selenium	7782-49-2	-	D010	PK, WG	11, 13				
			silver	7440-22-4	-	D011	PK, WG	11, 13				
			RF, RF	422	SOOT (MW)	toluene	108-88-3	-	F005		PK, WG	11, 13
						1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	HSG, PK, WG	1, 11, 13	
1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002				-	AK, HSG	1, 26				
1,1-dichloroethylene	75-35-4	D029				-	AK, HSG	1, 26				
arsenic	7440-38-2	D004				D004	AK, PK, WG	11, 13, 26				
barium	7440-39-3	D005				D005	AK, PK, WG	11, 13, 26				
cadmium	7440-43-9	D006				D006	AK, PK, WG	11, 13, 26				
chromium	7440-47-3	D007				D007	AK, PK, WG	11, 13, 26				
lead	7439-92-1	D008				D008	AK, PK, WG	11, 13, 26				
mercury	7439-97-6	D009				D009	AK, PK, WG	11, 13, 26				
methylene chloride	75-09-2	F001/F002				F002	AK, HSG, PK, WG	1, 11, 13, 26				
selenium	7782-49-2	D010				D010	AK, PK, WG	11, 13, 26				
silver	7440-22-4	D011				D011	AK, PK, WG	11, 13, 26				
RF, RF	425	FLUID BED ASH (MW)				toluene	108-88-3	F005	F005		AK, PK, WG	11, 13, 26
			xylene	1330-20-7	F003	-	AK	26				
			chromium	7440-47-3	D007	D007	AK, WG	13, 26				
			methanol	67-56-1	F003	-	AK	26				
			methyl ethyl ketone	78-93-3	F005	-	AK	26				
			toluene	108-88-3	F005	F005	AK, WG	13, 26				
			RF, RF	430	ION COLUMN UNLEACHED RESIN	nitrates	-	D001	-	PK	7	

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		(MW)	chloroform	67-66-3	D022	-		AK, HSG, PK	64
			1,2-dichloroethane	107-06-2	D028	-		AK	64
			1,1-dichloroethylene	75-35-4	D029	-		AK, HSG	64
RF, RF	431	LEACHED RESIN (ROW)	chloroform	67-66-3	D022	-		AK, HSG, PK	64
			1,2-dichloroethane	107-06-2	D028-	-		PK	64
			1,1-dichloroethylene	75-35-4	D029	-		AK, HSG	64
RF, RF	432	RESIN, LEACHED AND CEMENTED (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG	1, 2, 26
			chloroform	67-66-3	D022	-		AK, HSG, PK	64
			1,2-dichloroethane	107-06-2	D028	-		AK	64
			1,1-dichloroethylene	75-35-4	D029	-		AK, HSG	1, 26, 64
			chromium	7440-47-3	D007	-		AK	26
			carbon tetrachloride	56-23-5	F001	F001		WG, HSG	2, 9
			isopropanol	67-63-0	-	-		PK, HSG	9, 11
			lead	7439-92-1	D008	D008		AK, WG	2, 26
			methylene chloride	75-09-2	-	F002		WG, HSG	2, 9
			toluene	108-88-3	F005	-		AK, HSG	1, 26
RF, RF	440	GLASS (MW)	trichloroethylene (TCE)	79-01-6	F001/F002	F001		AK, WG, HSG	1, 2, 9, 26
			1,1-dichloroethylene	75-35-4	-	-	D029		59
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	WG, HSG	1, 2, 9, 46, 59
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001/F002	AK	46, 59
			1,2-dichloroethane	107-06-2	-	-	D028		59
			barium	7440-39-3	D005	-	D005	AK	26, 46, 59
			benzene	71-43-2	-	-	F005	AK	46, 59
			carbon disulfide	75-15-0	-	-	F005	AK	46, 59
			carbon tetrachloride	56-23-5	F001	F001	F001	WG	2, 46, 59
			chloroform	67-66-3	-	-	D022	AK	46, 59
		(see Note 3)	cyclohexane (ignitable liquid)	110-82-7	D001	-		AK, PK, HSG	1, 9, 11, 26, 46
			lead	7439-92-1	D008	D008	D008	AK, WG	2, 26, 46, 59
			mercury	7439-97-6	D009	D009	D009	AK, WG, PK	2, 11, 26, 46, 59
			methyl ethyl ketone	-	-	-	F005		59
			methylene chloride	75-09-2	-	F002	F002	WG	2, 9, 46, 59

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		(see Note 3)	potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	PK	5, 46, 59
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	46, 59
			toluene	108-88-3	F005	-	F005	PK	11, 46, 59
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	46, 59
RF, RF	441	RASCHIG RINGS, UNLEACHED (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, HSG	1, 9, 26, 41, 69
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F002	AK	41, 69
			carbon tetrachloride	56-23-5	F001	-	F001	AK	1, 9, 26, 41, 69
			chloroform	67-66-3	-	-	D022		69
			lead	7439-92-1	D008	-	D008	PK	5, 41, 69
			mercury	74.9-97-6	-	-	D009		69
			methanol	67-56-1	F003	-	-	AK, HSG	1, 26, 41
			methyl ethyl ketone	79-93-3	-	-	F005		69
			methylene chloride	75-9-2	-	-	F002		69
		(see Note 3)	potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	-	-	AK, PK	5, 26, 41
			tetrachloroethylene (perclene)	127-18-4	F001/F002	-	F002	AK, HSG	1, 26, 41, 69
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F002	AK, HSG	1, 9, 26, 41, 69
RF, RF	442	RASCHIG RINGS, LEACHED (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 41, 69
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F002	AK	41, 69
			carbon tetrachloride	56-23-5	-	F001	F001	WG	2, 41, 69
			chloroform	67-66-3	-	-	D022		69
			lead	7439-92-1	-	D008	D008	WG	2, 41, 69
			mercury	74.9-97-6	-	-	D009		69
			methyl ethyl ketone	79-93-3	-	-	F005		69
			methylene chloride	75-09-2	-	F002	F002	WG, HSG	2, 9, 41, 69
RF, RF	44A	WETP BIN PROGRAM - GLASS (MW) (RF IDCs 440 and 442)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	-	AK, WG, HSG, PK	33
			barium	7440-39-3	D005	-	-	AK, PK	33
			carbon tetrachloride	56-23-5	F001	F001	-	WG, PK	33
		(see Note 3)	cyclohexane (ignitable liquid)	110-82-7	D001	-	-	AK, PK, HSG	33

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			lead	7439-92-1	D008	D008		AK, WG, PK	33
			mercury	7439-97-6	D009	D009		AK, WG, PK	33
			methylene chloride	75-09-2	-	F002		WG, HSG, PK	33
		(see Note 3)	potential corrosives if liquids exceed the WIPP WAC limit	-	D002	-		PK	33
			toluene	108-88-3	F005	-		PK	33
			trichloroethylene (TCE)	79-01-6	F001/F002	-		HSG, PK	33
RF, RF	460	WASHABLES, RUBBER, PLASTIC (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001	-		PK	3
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-		PK	3
			carbon tetrachloride	56-23-5	F001	-		PK	3
			methylene chloride	75-09-2	F002	-		PK	3
RF, RF	463	LEADED RUBBER GLOVES AND APRONS (MW)	1,1-dichloroethylene	75-35-4	-	-	D029		60
			1,1,1-trichloroethane (TCA)	71-55-6	F001	-	F001/F002	WG	2, 60
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	-	F001/F002		60
			1,2-dichloroethane	107-06-2	-	-	D028		60
			benzene	74-43-2	F005	-	F005		60
			carbon disulfide	75-15-0	-	-	F005		60
			carbon tetrachloride	56-23-5	F001	-	F001	WG	2, 60
			chloroform	67-66-3	-	-	D022		60
			cyanide cleaning bath solutions	-	-	-	F009		60
			cyanide plating bath solutions	-	-	-	F007		60
			electroplating sludges	-	-	-	F006		60
			lead	7439-92-1	-	D008	D008	WG	2, 60
			methyl ethyl ketone	-	-	-	F005		60
			methylene chloride	75-09-2	F002	-	F002	WG	2, 60
			trichloroethylene (TCE)	79-01-6	F001	-	F001/F002	WG	2, 60
			toluene	108-88-3	-	-	F005		60
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002		60
RF, RF	464	BENELEX AND PLEXIGLASS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001	-		WG, HSG	1, 2, 9
			barium	7440-39-3	D005	-		AK	26
			lead	7439-92-1	D008	D008		AK, WG	2, 26

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RF, RF	480	NON-SPECIAL SOURCE METAL (MW)	toluene	108-88-3	-	-		HSG	1	
			trichloroethylene (TCE)	79-01-6	-	-		HSG	1	
			1,1-dichloroethylene	75-35-4	-	-	D029		58	
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 45, 58	
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001/F002	WG, HSG	2, 45, 58	
			1,1-dichloroethylene	75-35-4	-	-	-	HSG	9	
			1,2-dichloroethane	107-06-2	-	D028	D028	WG,	2, 9, 45, 58	
			acetone	67-64-1	F003	-	-	AK	45, 58	
			arsenic	7440-38-2	D004	-	D004	PK	11, 45, 58	
			barium	7440-39-3	D005	-	D005	PK	11, 45, 58	
			benzene	74-43-2	F005	-	F005	AK	45, 58	
			beryllium (not beryllium powder)	7440-41-7	-	-	-	WG	2	
			cadmium	7440-43-9	D006	-	D006	AK, PK	11, 26, 45, 58	
			carbon disulfide	75-15-0	-	-	F005	AK	45, 58	
			carbon tetrachloride	56-23-5	-	F001	F001	WG, HSG	2, 9, 45, 58	
			chloroform	67-66-3	-	-	D022		58	
			chromium	7440-47-3	D007	-	D007	AK, PK	11, 26, 45, 58	
			cyanide	57-12-5	-	-	-	PK	11	
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 45, 58	
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 45, 58	
			(see Note 3)							
			cyclohexane (ignitable liquid)	110-82-7	D001	-	-	AK	26, 45, 58	
			dichloroethylene	25323-30-2	-	-	-	PK	11	
			electroplating sludges	-	F006	-	F006	AK	26, 45, 58	
			ethyl benzene	100-41-4	F003	-	-	PK	11, 58	
			lead	7439-92-1	D008	D008	D008	AK, WG, PK	2, 4, 26, 45, 58	
			mercury	7439-97-6	D009	-	D009	PK	11, 45, 58	
			methane	74-82-8	-	-	-	PK	11	
			methanol	67-56-1	-	-	-	AK	45, 58	
			methyl ethyl ketone	96-2-97	-	-	F005		58	
			methylene chloride	75-09-2	F002	F002	F002	AK, WG	1, 2, 9, 26, 45, 58	
			selenium	7782-49-2	D010	-	D010	PK	11, 45, 58	

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RF, RF	481	LEACHED NON-SPECIAL SOURCE METAL (MW)	silver	7440-22-4	D011	-	D011	AK, PK	11, 26, 45, 58
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	45, 58
			toluene	108-88-3	F005	-	F005	AK, PK, HSG	11, 26, 45, 58
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 9, 26, 45, 58
			xylene (m, p, & o)	1330-20-7	F003	-	-	AK, PK	11, 26, 45, 58
			1,1-dichloroethylene	75-35-4	-	-	D029		58
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK, WG, HSG	1, 2, 9, 26, 45, 58
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001/F002	WG, HSG	2, 9, 45, 58
			1,2-dichloroethane	107-06-2	-	-	D028	AK	45, 58
			acetone	67-64-1	F003	-	-	AK	45, 58
			arsenic	7440-38-2	-	-	D004		58
			barium	7440-39-3	-	-	D005		58
			benzene	74-43-2	F005	-	F005	AK	45, 58
			cadmium	7440-43-9	D006	-	D006	AK	26, 45, 58
			carbon disulfide	75-15-0	-	-	F005	AK	45, 58
			carbon tetrachloride	56-23-5	-	F001	F001	WG, HSG	2, 9, 45, 58
			chloroform	67-66-3	-	-	D022		58
			chromium	7440-47-3	D007	-	D007	AK	26, 45, 58
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 45, 58
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 45, 58
			electroplating sludges	-	F006	-	F006	AK	26, 45, 58
			lead	7439-92-1	D008	D008	D008	AK, WG	2, 26, 45, 58
			mercury	7439-97-6	-	-	D009	AK	45, 58
			methanol	67-56-1	-	-	-	AK	45, 58
			methyl ethyl ketone	96-2-97	-	-	F005		58
			methylene chloride	75-09-2	F002	F002	F002	AK, WG, HSG.	2, 9, 26, 45, 58
			selenium	7782-49-2	-	-	D010		58
			silver	7440-22-4	D011	-	D011	AK	26, 45, 58
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	45, 58
			toluene	108-88-3	F005	-	F005	AK, HSG	26, 45, 58
			trichloroethylene (TCE)	79-01-6	F001/F002	F001	F001, F002	AK, HSG	26, 45, 58

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RF, RF	488	GLOVEBOX PARTS W/LEAD (MW)	xlenes (m, p, & o)	1330-20-7	F003	-	-	AK	26, 45, 58
RF, RF	48A	WETP BIN PROGRAM - METAL (MW) (RF IDCs 480 and 481)	lead	7439-92-1	-	D008		WG, PK	2, 4
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG, PK	33
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG, PK	33
			1,1-dichloroethylene	75-35-4	-	-		HSG, PK	33
			1,2-dichloroethane	107-06-2	-	D028		WG, HSG, PK	33
			arsenic	7440-38-2	D004	-		PK	33
			barium	7440-39-3	D005	-		AK, PK	33
			beryllium (not beryllium powder)	7440-41-7	-	-		WG, PK	33
			cadmium	7440-43-9	D006	-		AK, PK	33
			carbon tetrachloride	56-23-5	F001	F001		WG, PK	33
			chromium	7440-47-3	D007	-		AK, PK	33
			cyanide	57-12-5	-	-		PK	33
			cyanide cleaning bath solutions	-	F009	-		AK, PK	33
			cyanide plating bath solutions	-	F007	-		AK, PK	33
			cyclohexane (ignitable liquid)	110-82-7	D001	-		AK, PK, HSG	33
			dichloroethylene	25323-30-2	-	-		PK	33
			electroplating sludges	-	F006	-		AK, PK	33
			ethyl benzene	100-41-4	F003	-		PK	33
			lead	7439-92-1	D008	D008		AK, WG, PK	33
			mercury	7439-97-6	D009	D009		PK	33
			methane	74-82-8	-	-		PK	33
			methylene chloride	75-09-2	-	F002		WG, HSG, PK	33
			selenium	7782-49-2	D010	-		PK	33
			silver	7440-22-4	D011	-		AK, PK	33
			toluene	108-88-3	F005	-		PK	33
			trichloroethylene (TCE)	79-01-6	F001/F002	-		HSG, PK	33
			xylene	1330-20-7	F003	-		AK, PK	33
RF, RF	490	HEPA FILTERS AND CWS FILTERS (MW) (See Note 2)	1,1-dichloroethylene	75-35-4	-	-	D029		57
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 26, 49, 57
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F0001/F002	WG	2, 49, 57
			1,2-dichloroethane	107-06-2	-	-	D028		57

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			arsenic	7440-38-2	-	-	D004		57
			asbestos	1332-21-4	-	-	-	PK	7
			barium	7440-39-3	D005	-	D005	AK	26, 49, 57
			benzene	71-43-2	-	-	F005	AK	49, 57
			cadmium	7440-43-9	-	-	D006		57
			carbon disulfide	75-15-0	-	-	F005		57
			carbon tetrachloride	56-23-5	-	F001	F001	WG	2, 49, 57
			chloroform	67-66-3	-	-	D022	AK	49, 57
			chromium	7440-47-3	D007	-	D007	AK	26, 49, 57
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 49, 57
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 49, 57
			electroplating sludges	-	F006	-	F006	AK	26, 49, 57
			lead	7439-92-1	D008	D008	D008	AK	26, 49, 57
			mercury	7439-97-6	-	-	D009	AK	49, 57
			methyl ethyl ketone	96-2-97	-	-	F005		57
			methylene chloride	75-09-2	-	F002	F002	WG	2, 49, 57
			nitrates (only for waste generated in Bldg 374 after 1984)	-	D001	-	-	AK, PK	3, 5, 26, 49, 57
			selenium	7782-49-2	-	-	D010		57
			silver	7440-22-4	D011	-	D011	AK	26, 49, 57
			tetrachloroethylene (perclene)	127-18-4	F001	-	F001/F002	AK	26, 49, 57
			toluene	108-88-3	-	-	F005	AK,	1, 26, 49, 57
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK,	1, 26, 49, 57
			xylene	1330-20-7	F003	-	-	AK	26, 49, 57
RF, RF	491	PLENUM PREFILTERS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG	2, 4
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2, 4
			carbon tetrachloride	56-23-5	-	F001		WG	2, 4
			methylene chloride	75-09-2	-	F002		WG	2, 4
RF, RF	700	OASIS WASTE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG	2, 26, 68
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F002	WG	2, 68
			1,2-dichloroethane				D028	AK	68
			1,1-dichloroethylene				D029	AK	68

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			2,4-dinitrotoluene				D030	AK	68
			2-ethoxyethanol				F005	AK	68
			benzene				F005	AK	68
			carbon disulfide				F005	AK	68
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG	2, 26, 68
			chloroform	67-66-3	D022	-	D022	AK, PK	5, 26, 68
			hexachlorobenzene				D032	AK	68
			hexachloroethane				D034	AK	68
			methylene chloride				F002	AK	68
			methyl ethyl ketone				F005	AK	68
			nitrobenzene				D036	AK	68
			tetrachloroethylene				F002	AK	68
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F002	AK	26, 68
			toluene				F005	AK	68
			vinyl chloride				D043	AK	68
			xylene	1330-20-7	F003	-		PK	5
RF, RF	741	PITS 11 & 12 FIRST STAGE SLUDGE	TBD					HWD	
RF, RF	742	PITS 11 & 12 SECOND STAGE SLUDGE	TBD					HWD	
RF, RF	743	PITS 11 & 12 ORGANIC SETUPS	TBD					HWD	
RF, RF	744	PITS 11 & 12 SPECIAL SETUPS	TBD					HWD	
RF, RF	745	PITS 11 & 12 EVAPORATOR SALTS	TBD					HWD	
RF, RF	750	PITS 11 & 12 DEBRIS	TBD	-	-	-		HWD	21
RF, RF	751	PITS 11 & 12 ROASTER OXIDE	TBD	-	-	-		HWD	21
RF, RF	800	FIRST STAGE SLUDGE – CEMENTED (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG	2, 26, 42, 81
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F002	AK, WG	2, 26, 42, 81
			1,1,2-trichloroethane	79-00-5	F002	-		AK	26, 42
			1,1-dichloroethylene	75-35-4	-	-		PK	11
			1-butanol	71-36-3	-	F003		WG	2, 4, 42
			acetone	67-64-6	-	-	F003		42, 81
			arsenic	7440-38-2	D004	-	D004	AK	26, 42, 81

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			barium	7440-39-3	D005	-	D005	AK	26, 42, 81
			benzene	71-43-2	-	-	F005	PK	11, 42, 81
			beryllium (not beryllium powder)	7440-41-7	-	-		WG	2
			cadmium	7440-43-9	D006	D006	D006	AK, WG, SS	2, 4, 26, 42, 81
			carbon tetrachloride	56-23-5	F001/F002	F001	F001	AK, WG	2, 26, 42, 81
			chlorobenzene	108-90-7	F002	-	F002	AK	26, 42, 81
			chloroform	67-66-3	-	-	D022	WG, HSG	2, 42, 81
			chromium	7440-47-3	D007	-	D007	AK, PK, SS	11, 26, 42, 81
			cyanide cleaning bath solutions	-	F009	-	F009	AK	26, 42, 81
			cyanide plating bath solutions	-	F007	-	F007	AK	26, 42, 81
			electroplating sludges	-	F006	-	F006	AK	26, 42, 81
			ethyl benzene	100-41-4	F003	-		AK, PK	11, 26, 42
			lead	7439-92-1	D008	D008	D008	AK, WG	2, 4, 26, 42, 81
			mercury	7439-97-6	D009	-	D009	AK	26, 42, 81
			methanol	67-56-1	-	F003	F003	WG	2, 4, 42, 81
			methylene chloride	75-09-2	F002	F002	F001/F002	AK, WG	2, 26, 42, 81
		(see Note 3)	potential corrosives if liquids exceed the WIPP-WAC limit		D002	-		AK	26, 42, 81
			selenium	7782-49-2	D010	-	D010	AK	26, 42, 81
			silver	7440-22-4	D011	-	D011	AK, PK, SS	11, 26, 42, 81
			tetrachloroethylene (perclene)	127-18-4	-	F001	F001/F002	AK	42, 81
			toluene	108-88-3	F005	-	F005	AK, PK	11, 26, 42, 81
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	26, 42, 81
			xylene	1330-20-7	F003	F003	F003	AK, WG,	2, 4, 26, 42, 81
RF, RF	801	SOLIDIFIED ORGANICS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001/F002	AK, WG, HSG	1, 2, 4, 26, 68
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F002	WG, PK	2, 4, 68
			1,2-dichloroethane	107-06-2			D028		68
			1,1-dichloroethylene	75-35-4			D029		68
			2,4-dinitrotoluene	121-14-2			D030		68
			2-ethoxyethanol	100-80-5			F005		68
			carbon tetrachloride	56-23-5	F001	F001	F001	AK, WG, HSG	1, 2, 4, 26, 68
			benzene	71-43-2			F005		68
			carbon disulfide	75-15-0			F005		68

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RF, RF	802	SOLIDIFIED LABORATORY WASTE (MW)	chloroform	67-66-3	D022	-	D022	AK	26, 68
			hexachlorobenzene				D032		68
			hexachloroethane	67-72-1			D034		68
			methanol	67-56-1	F003	-		AK, HSG	1, 26
			methylene chloride	75-09-2	-	-	F002	PK	11, 68
			methyl ethyl ketone	8-93-3			F005		68
			nitrobenzene				D036		68
			tetrachloroethylene (perclene)	127-18-4	-	-	F002	PK	11, 68
			toluene	108-88-3	-	-	F005	PK	11, 68
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F002	AK, PK	11, 26, 68
			vinyl chloride	75-01-4			D043		68
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001	AK	26, 66
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1			F002		66
			1,1-dichloroethylene	7440-47-3	-	-	D029		66
			2-ethoxyethanol	110-80-5	F005	-	F005	AK	26, 66
			acetone	67-64-1	F003				
			benzene	71-43-2	F005		F005		66
			cadmium	7440-43-9			D006		66
			carbon tetrachloride	56-23-5	F001	-	F001	AK	26, 66
			chromium	7440-47-3	-	-	D007		66
			cyclohexane (if waste contains free liquids)	110-82-7	D001	-		HSG	1
			ethyl benzene	100-41-4	F003	-		AK	26
			lead	7439-92-1			D008		66
			methanol	67-56-1	F003	-		AK, HSG	1, 26
			methylene chloride	75-29-2			F001/F002		66
			methyl ethyl ketone	78-93-3			F005		66
			silver	7440-22-4	D011	-	D011	PK	11, 66
			tetrachloroethylene	127-18-4	F002		F001		66
			toluene	108-88-3	F005	-	F005	AK	26, 66
			trichloroethylene (TCE)	79-01-6	F001/F002	-	F001/F002	AK	26, 66
			xylene	1330-20-7	F003	-		AK	26
			cyanide cleaning bath solutions				F009		66

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF		
RF, RF	803	SOLIDIFIED DCP SLUDGE (MW)	cyanide plating bath solutions				F007		66		
			electroplating sludges				F006		66		
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001	AK, WG, HSG	2, 26, 43, 82		
			1,1,2,2-tetrachloroethane	79-34-5	-	-		PK	11		
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002	F001	AK, WG	2, 26, 43, 82		
			1-butanol	71-36-3	-	F003		WG	2, 4, 43, 82		
			arsenic	7440-38-2	-	-		PK	11		
			barium	7440-39-3	-	-		PK	11		
			benzene	71-43-2	-	-	F005	AK	43, 82		
			beryllium (not beryllium powder)	7440-41-7	-	-		WG	2		
			cadmium	7440-43-9	-	D006	D006	WG, PK	2, 4, 43, 82		
			carbon tetrachloride	56-23-5	-	F001	F001	WG	2, 43, 82		
			chromium	7440-47-3	D007	-	D007	AK, PK, SS	11, 26, 43, 82		
			cyanide cleaning bath solutions	-	F009	F009	F009	AK, WG	13, 26, 43, 82		
			cyanide plating bath solutions	-	F007	F007	F007	AK, WG	13, 26, 43, 82		
			electroplating sludges	-	F006	F006	F006	AK, WG	13, 26, 43, 82		
			ethyl benzene	100-41-4	-	F003		WG	2, 4, 43, 82		
			hexachlorobenzene	118-74-1	-	-	D032	SS	43, 82		
			lead	7439-92-1	-	D008	D008	WG, PK	2, 4, 43, 82		
			mercury	7439-97-6	-	-	D009	PK	11, 43, 82		
			methanol	67-56-1	-	F003		WG	2, 4, 43, 82		
			methyl ethyl ketone	78-93-3	-	-	F005	AK	43, 82		
			methylene chloride	75-09-2	F002	F002	F002	AK, WG	2, 26, 43, 82		
			(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit		D002	-	AK	26, 43, 82	
					selenium	7782-49-2	D010	-	D010	AK, PK	11, 26, 43, 82
					silver	7440-22-4	-	-	D011	PK	11, 43, 82
					tetrachloroethylene (perclene)	127-18-4	-	-	F001	AK	26, 43, 82
					toluene	108-88-3	F005	F005	F005	AK, WG	2, 26, 43, 82
		trichloroethylene (TCE)	79-01-6	-	-	F001	AK	26, 43, 82			
		xylene	1330-20-7	F003	F003		AK, WG	2, 26, 43, 82			
RF, RF	806	SOLIDIFIED PROCESS SOLIDS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG	2, 4, 26		

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			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2, 4
			1-butanol	71-36-3	-	F003		WG	2, 4
			arsenic	7440-38-2	D004	-		AK	26
			barium	7440-39-3	D005	-		AK	26
			cadmium	7440-43-9	D006	-		AK	26
			carbon tetrachloride	56-23-5	-	F001		WG	2, 4
			chromium	7440-47-3	D007	-		AK	26
			lead	7439-92-1	D008	D008		WG	2, 4
			mercury	7439-97-6	D009	-		AK	26
			methanol	67-56-1	-	F003		WG	2, 4
			methylene chloride	75-09-2	-	F002		WG	2, 4
			methyl ethyl ketone	78-93-3	F005	-		AK	26
			selenium	7782-49-2	D010	-		AK	26
			silver	7440-22-4	D011	-		AK	26
			toluene	108-88-3	F005	-		AK	26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK	26
			xylene	1330-20-7	-	F003		WG	2, 4
RF, RF	807a	BYPASS SLUDGE (After 3/21/87) (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001	F001	AK, WG	2, 4, 26, 43
			1,1,2,2-tetrachloroethane	79-34-5	-	-		PK	11
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002	F001	AK, WG	2, 26, 43, 82
			1-butanol	71-36-3	-	F003		WG	2, 4, 43
			2-butanone	78-93-3	-	-		PK	11
			acetone	67-64-1	-	-		PK	11
			arsenic	7440-38-2	-	-		PK	11
			barium	7440-39-3	-	-		PK	11
			benzene	71-43-2	-	-	F005	PK	11, 43, 82
			beryllium (not beryllium powder)	7440-41-7	-	-		WG	2
			cadmium	7440-43-9	-	D006	D006	WG	2, 4, 43, 82
			carbon tetrachloride	56-23-5	-	F001	F001	WG	2, 43, 82
			chromium	7440-47-3	D007	-	D007	AK, PK, SS	11, 26, 43, 82
			cyanide	57-12-5	-	-		PK	11
			cyanide cleaning bath solutions	-	F009	F009	F009	AK, WG	13, 26, 43, 82

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			cyanide plating bath solutions	-	F007	F007	F007	AK, WG	13, 26, 43, 82
			electroplating sludges	-	F006	F006	F006	AK, WG	13, 26, 43, 82
			ethyl benzene	100-41-4	-	F003		WG	2, 4, 43
			hexachlorobenzene	118-74-1	-	-	D032	SS	43, 82
			lead	7439-92-1	-	D008	D008	WG	2, 4, 43, 82
			mercury	7439-97-6	-	-	D009	PK	11, 43, 82
			methanol	67-56-1	-	F003		WG	2, 4, 43
			methyl ethyl ketone	78-93-3	-	-	F005	AK	43, 82
			methylene chloride	75-09-2	F002	F002	F002	AK, WG	2, 26, 43, 82
	(see Note 3)		potential corrosives if liquids exceed the WIPP-WAC limit	-	D002	D002		AK, WG, PK	11, 13, 26, 43
			selenium	7782-49-2	D010	-	D010	AK, PK	11, 26, 43, 82
			silver	7440-22-4	-	-	D011	PK	11, 43, 82
			styrene	100-42-5	-	-		PK	11
			tetrachloroethylene (perclene)	127-18-4	-	F001	F001	AK	26, 43, 82
			toluene	108-88-3	F005	F005	F005	AK, WG	2, 26, 43, 82
			trans-1,3-dichloropropene	542-75-6	-	-		PK	11
			trichloroethylene (TCE)	79-01-6	-	-	F001	PK	11, 43, 82
			xylene	1330-20-7	F003	F003		AK, WG	2, 4, 26, 43
RF, RF	807b	CEMENTED INCINERATOR SLUDGE (Bldg 771 generated prior to March 21, 1987) (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-	F001/F002	AK	26, 44
		<b>NOTE:</b> For purpose of data management within TRIPS, a surrogate IDC (696) is being used to uniquely identify the IDC 807b subpopulation. Drum labeling and WWIS data transfer will reflect IDC 807 to align with the AK and the WSPF.	1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F001/F002	-	F001/F002	AK	44
			acetone	67-64-1	F003	-	F003	AK	44
			arsenic	7440-38-2	D004	-	D004	AK	26, 44
			barium	7440-39-3	D005	-	D005	AK	26, 44
			benzene	74-43-2	F005	-	F005	AK	44
			cadmium	7440-43-9	D006	-	D006	AK, SS	26, 44
			carbon tetrachloride	56-23-5	-	-	F001/F002	AK	44
			chloroform	67-66-3	-	-	D022	HSG	44
			chromium	7440-47-3	D007	-	D007	AK	26, 44
			cyanide cleaning bath solutions	-	-	-	F009	AK	44

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			cyanide plating bath solutions	-	-	-	F007	AK	44
			electroplating sludges	-	-	-	F006	AK	44
			lead	7439-92-1	D008	-	D008	AK, SS	26, 44
			mercury	7439-97-6	D009	-	D009	AK	26, 44
			methanol	67-56-1	-	-	F003	AK	44
			methylene chloride	75-09-2	F002	-	F002	AK	26, 44
			selenium	7782-49-2	D010	-	D010	AK	26, 44
			silver	7440-22-4	D011	-	D011	AK	26, 44
			tetrachloroethylene (perclene)	127-18-4	-	-	F001/F002	AK	44
			toluene	108-88-3	F005	-	F005	AK, HSG	26, 44
			trichloroethylene (TCE)	79-01-6	-	-	F001/F002	AK	44
			xylene	1330-20-7	F003	-	F003	AK	26, 44
RF, RF	817	CEMENTED SS AND C HEELS (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG	2
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2
			1-butanol	71-36-3	-	F003		WG	2
			carbon tetrachloride	56-23-5	-	F001		WG	2
			chromium	7440-47-3	D007	-		AK, PK	11, 26
			lead	7439-92-1	-	D008		WG	2
			methanol	67-56-1	-	F003		WG	2
			methylene chloride	75-09-2	-	F002		WG	2
			xylene	1330-20-7	-	F003		WG	2
RF, RF	818	CEMENTED INCINERATOR ASH (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG	2, 26
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2
			1-butanol	71-36-3	-	F003		WG	2
			arsenic	7440-38-2	D004	-		AK, PK	11, 26
			barium	7440-39-3	D005	-		AK, PK	11, 26
			cadmium	7440-43-9	D006	-		AK, PK	11, 26
			carbon tetrachloride	56-23-5	-	F001		WG	2
			chromium	7440-47-3	D007	-		AK, PK	11, 26
			lead	7439-92-1	D008	D008		AK, WG, PK	2, 11, 26
			mercury	7439-97-6	D009	-		AK, PK	11, 26
			methanol	67-56-1	-	F003		WG	2

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RF, RF	820	CEMENTED SOOT (MW)	methylene chloride	75-09-2	F001/F002	F002		AK, WG	2, 26
			selenium	7782-49-2	D010	-		AK, PK	11, 26
			silver	7440-22-4	D011	-		AK, PK	11, 26
			toluene	108-88-3	F005	-		AK	26
			xylene	1330-20-7	F003	F003		AK, WG	2, 26
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG	2, 26
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2
			1-butanol	71-36-3	-	F003		WG	2
			arsenic	7440-38-2	D004	-		AK, PK	11, 26
			barium	7440-39-3	D005	-		AK, PK	11, 26
			cadmium	7440-43-9	D006	-		AK, PK	11, 26
			carbon tetrachloride	56-23-5	-	F001		WG	2
			chromium	7440-47-3	D007	-		AK, PK	11, 26
			lead	7439-92-1	D008	D008		AK, WG, PK	2, 11, 26
			mercury	7439-97-6	D009	-		AK, PK	11, 26
			methanol	67-56-1	-	F003		WG	2
			RF, RF	822	CEMENTED RESINS (ROW)	methylene chloride	75-09-2	F001/F002	F002
selenium	7782-49-2	D010				-		AK, PK	11, 26
silver	7440-22-4	D011				-		AK, PK	11, 26
toluene	108-88-3	F005				-		AK	26
xylene	1330-20-7	F003				F003		AK, WG	2, 26
chloroform	67-66-3	D022				-		AK, HSG, PK	30, 64
1,2-dichloroethane	107-06-2	D028				-		AK, HSG	64
1,1-dichloroethylene	75-35-4	D029				-		AK, HSG	30, 64
toluene	108-88-3	-				-		HSG	1
RF, RF	823	CEMENTED MISCELLANEOUS SLUDGE (MW)				1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2
			1-butanol	71-36-3	-	F003		WG	2
			arsenic	7440-38-2	D004	-		AK	26
			barium	7440-39-3	D005	-		AK	26
			cadmium	7440-43-9	D006	-		AK	26
			carbon tetrachloride	56-23-5	-	F001		WG	2

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			chromium	7440-47-3	D007	-		AK	26
			lead	7439-92-1	D008	D008		AK, WG	2, 26
			mercury	7439-92-1	D009	-		AK	26
			methanol	67-56-1	-	F003		WG	2
			methyl ethyl ketone	78-93-3	F005	-		AK	26
			methylene chloride	75-09-2	-	F002		WG	2
			selenium	7782-49-2	D010	-		AK	26
			silver	7440-22-4	D011	-		AK	26
			toluene	108-88-3	F005	-		AK	26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK	26
			xylene	1330-20-7	F003	F003		AK, WG	2, 26
RF, RF	831	DRY COMBUSTIBLES (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG, PK	2, 4,
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG, PK	2, 4
			1,1-dichloroethylene	75-35-4	-	-		PK	11
			carbon tetrachloride	56-23-5	-	F001		WG, PK	2, 4
			cyclohexane	110-82-7	-	-		PK	11
			ethyl benzene	100-41-4	-	-		PK	11
			methylene chloride	75-09-2	-	F002		WG, PK	2, 4
			toluene	108-88-3	-	-		PK	11
			xylene	1330-20-7	-	-		PK	11
RF, RF	832	WET COMBUSTIBLES (MW)	1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG, PK	2, 4
			1,1,2,2-tetrachloroethane	79-34-5	-	-		PK	11
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2, 4
			1,2,4-trimethylbenzene	95-63-6	-	-		PK	11
			benzene	71-43-2	-	-		PK	11
			carbon tetrachloride	56-23-5	-	F001		WG	2, 4
			chloroform	67-66-3	-	-		PK	11
			cyclohexane	110-82-7	-	-		PK	11
			ethyl benzene	100-41-4	-	-		PK	11
			methane	74-82-8	-	-		PK	11
			methylene chloride	75-09-2	-	F002		WG	2, 4
			toluene	108-88-3	-	-		PK	11

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RF, RF	833	PLASTICS, TRU MIXED (MW)	xylene	1330-20-7	-	-		PK	11			
			1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG	2, 4			
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2, 4			
			carbon tetrachloride	56-23-5	-	F001		WG	2, 4			
			chloroform	67-66-3	-	-		PK	11			
			cyclohexane	110-82-7	-	-		PK	11			
			methylene chloride	75-09-2	-	F002		WG	2, 4			
			toluene	108-88-3	-	-		PK	11			
			trichloroethylene (TCE)	79-01-6	-	-		PK	11			
			xylene	1330-20-7	-	-		PK	11			
			RF, RF	900	LSA PAPER, PLASTIC, ETC. (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG	1, 2, 9, 26
						1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002		AK, WG	2, 26
						1,1-dichloroethylene	75-35-4	D029	-		AK	26
arsenic	7440-38-2	D004				-		AK	26			
barium	7440-39-3	D005				-		AK	26			
cadmium	7440-43-9	D006				-		AK	26			
carbon tetrachloride	56-23-5	F001				F001		AK, WG, HSG	1, 2, 26			
chromium	7440-47-3	D007				-		AK	26			
lead	7439-92-1	D008				D008		AK, WG	2, 26			
mercury	7439-92-1	D009				-		AK	26			
methyl ethyl ketone	78-93-3	F005				-		AK	26			
methylene chloride	75-09-2	F002				F002		AK, WG	2, 26			
selenium	7782-49-2	D010				-		AK	26			
silver	7440-22-4	D011				-		AK	26			
tetrachloroethylene (perclene)	127-18-4	F001/F002				-		AK, HSG	1, 26			
toluene	108-88-3	F005				-		AK	26			
trichloroethylene (TCE)	79-01-6	F001/F002				F001		AK, WG, HSG	2, 9, 26			
RF, RF	950	LSA METAL, GLASS, ETC. (MW)	xylene	1330-20-7	-	F003		WG	2			
			1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK	26			
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	F002		AK	26			
			arsenic	7440-38-2	D004	-		AK	26			

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			barium	7440-39-3	D005	-		AK	26
			cadmium	7440-43-9	D006	-		AK	26
			chromium	7440-47-3	D007	-		AK	26
			lead	7439-92-1	D008	-		AK, PK	7, 26
			mercury	7439-92-1	D009	-		AK	26
			methyl ethyl ketone	78-93-3	F005	-		AK	26
			methylene chloride	75-09-2	F001/F002	-		AK	26
			selenium	7782-49-2	D010	-		AK	26
			silver	7440-22-4	D011	-		AK	26
			toluene	108-88-3	F005	-		AK	26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK	26
RF, RF	960	CONCRETE, ASPHALT, ETC. (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	-		AK, HSG	1, 26
			arsenic	7440-38-2	D004	-		AK	26
			barium	7440-39-3	D005	-		AK	26
			cadmium	7440-43-9	D006	-		AK	26
			chromium	7440-47-3	D007	-		AK	26
			lead	7439-92-1	D008	-		AK	26
			mercury	7439-92-1	D009	-		AK	26
			methyl ethyl ketone	78-93-3	F005	-		AK	26
			methylene chloride	75-09-2	F001/F002	-		AK	26
			selenium	7782-49-2	D010	-		AK	26
			silver	7440-22-4	D011	-		AK	26
			toluene	108-88-3	F005	-		AK	26
			trichloroethylene (TCE)	79-01-6	F001/F002	-		AK, HSG	1, 26
RF, RF	970	WOOD (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001/F002	F001		AK, WG, HSG	1, 2, 9, 26
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2
			1,1-dichloroethylene	75-35-4	-	-		HSG	1
			carbon tetrachloride	56-23-5	-	F001		WG, HSG	1, 2
			lead	7439-92-1	-	D008		WG	2
			methyl ethyl ketone	78-93-3	F005	-		AK	26
			methylene chloride	75-09-2	F001/F002	F002		AK, WG	2, 26
			toluene	108-88-3	F005	-		AK, HSG	1, 26
			trichloroethylene (TCE)	79-01-6	F001/F002	F001		AK, WG, HSG	1, 2, 9, 26

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF			
RF, RF	976	BUILDING 776 PROCESS SLUDGE (MW)	xylene	1330-20-7	-	F003		WG	2			
			1,1,1-trichloroethane (TCA)	71-55-6	-	F001		WG	2			
			1,1,2,2-tetrachloroethane	79-34-5	-	-		WG	2			
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	-	F002		WG	2			
			1,2-dichloroethylene	540-59-0	-	-		WG	2			
			1-butanol	71-36-3	-	F003		WG	2			
			beryllium (not beryllium powder)	7440-41-7	-	-		WG	2			
			cadmium	7440-43-9	-	D006		WG	2			
			carbon tetrachloride	56-23-5	-	F001		WG	2			
			chloroform	67-66-3	-	D022		WG	2			
			chromium	7440-47-3	-	D007		WG	2			
			cis-1,2-dichloroethylene	156-59-2	-	-		WG	2			
			lead	7439-92-1	-	D008		WG	2			
			mercury	7439-97-6	D009	-		PK	5			
			methanol	67-56-1	-	F003		WG	2			
			methylene chloride	75-09-2	-	F002		WG	2			
			tetrachloroethylene (perclene)	127-18-4	-	F001		WG	2			
			trans-1,2-dichloroethylene	156-60-5	-	-						
			trichloroethylene (TCE)	79-01-6	-	F001		WG	2			
			xylene	1330-20-7	-	F003		WG	2			
			RF, RF	978	LAUNDRY SLUDGE (MW)	1,1,1-trichloroethane (TCA)	71-55-6	F001	-		PK	5
						1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-		PK	5
						1-butanol	71-36-3	F003	-		PK	5
beryllium (not beryllium powder)	7440-41-7	-				-		PK	5			
cadmium	7440-43-9	D006				-		PK	5			
carbon tetrachloride	56-23-5	F001				-		PK	5			
chromium	7440-47-3	D007				-		PK	5			
lead	7439-92-1	D008				-		PK	5			
mercury	7439-97-6	D009				-		PK	5			
methanol	67-56-1	F003				-		PK	5			
methylene chloride	75-09-2	F002				-		PK	5			
tetrachloroethylene (perclene)	127-18-4	F001				-		PK	5			

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
RF, RF	980	EQUIPMENT (MW)	trichloroethylene (TCE)	79-01-6	F001	-		PK	5
			xylene	1330-20-7	F003	-		PK	5
			1,1,1-trichloroethane (TCA)	71-55-6	F001	-		PK	3
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-		PK	3
			carbon tetrachloride	56-23-5	F001	-		PK	3
RF, RF	990	DIRT (MW)	lead	7439-92-1	D008	-		PK	3
			methylene chloride	75-09-2	F002	-		PK	3
			1,1,1-trichloroethane (TCA)	71-55-6	F001	-		PK	3
			1,1,2-trichloro-1,2,2-trifluoroethane	76-13-1	F002	-		PK	3
			1-butanol	71-36-3	F003	-		PK	3
			carbon tetrachloride	56-23-5	F001	-		PK	3
			methanol	67-56-1	F003	-		PK	3
			methylene chloride	75-09-2	F002	-		PK	3
			nitrobenzene	98-95-3	F004	-		PK	3
			tetrachloroethylene (perclene)	127-18-4	F001	-		PK	3
			trichloroethylene (TCE)	79-01-6	F001	-		PK	3
			xylene	1330-20-7	F003	-		PK	3
RF, RF	995	SLUDGE (ROW)	no HW expected	-	-	-		PK	3, 7
RL	710	BWD	methylene chloride	75-09-2		F001		AK/WG	84
			methylene chloride	75-09-2		F002		AK/WG	84
			acetone	67-64-1		F003		AK/WG	84
			methanol	67-56-1		F003		AK/WG	84
			xylene	1330-20-7		F003		AK/WG	84
			toluene	108-88-3		F005		AK/WG	84
			barium	7440-39-3		D005		AK/WG	84
			cadmium	7440-43-9		D006		AK/WG	84
			chromium	7440-47-3		D007		AK/WG	84
			lead	7439-92-1		D008		AK/WG	84
			mercury	7439-92-1		D009		AK/WG	84
			silver	7440-22-4		D011		AK/WG	84

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RL	711 PUREXD		barium	7440-39-3		D005		AK/WG	85			
			cadmium	7440-43-9		D006		AK/WG	85			
			lead	7439-92-1		D008		AK/WG	85			
			mercury	7439-92-1		D009		AK/WG	85			
			silver	7440-22-4		D011		AK/WG	85			
RL	712 PFPD		arsenic	7440-38-2		D004		AK/WG	86			
			barium	7440-39-3		D005		AK/WG	86			
			cadmium	7440-43-9		D006		AK/WG	86			
			chromium	7440-47-3		D007		AK/WG	86			
			lead	7439-92-1		D008		AK/WG	86			
			mercury	7439-92-1		D009		AK/WG	86			
			selenium	7782-49-2		D010		AK/WG	86			
			silver	7440-22-4		D011		AK/WG	86			
			Carbon tetrachloride	56-23-5		D019		AK/WG	86			
			2,4-Dinitrotoluene	121-14-2		D030		AK/WG	86			
			RL	713 SCD		arsenic	7440-38-2		D004		AK/WG	86
						barium	7440-39-3		D005		AK/WG	86
						cadmium	7440-43-9		D006		AK/WG	86
chromium	7440-47-3					D007		AK/WG	86			
lead	7439-92-1					D008		AK/WG	86			
mercury	7439-92-1					D009		AK/WG	86			
selenium	7782-49-2					D010		AK/WG	86			
silver	7440-22-4					D011		AK/WG	86			
benzene	71-43-2					D018		A/WGK	86			
Carbon tetrachloride	56-23-5					D019		AK/WG	86			
chloroform	67-66-3					D022		AK/WG	86			
1,4-dichlorobenzene	95-50-1					D027		AK/WG	86			
1,2-dichloroethane	107-06-2					D028		AK/WG	86			
1,1-dichloroethylene	75-35-4					D029		AK/WG	86			
2,4-Dinitrotoluene	121-14-2					D030		AK/WG	86			
Hexachlorethane	67-72-1		D034		AK/WG	86						
Pentachlorophenol	87-65-5		D037		AK/WG	86						

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GENERATOR SITE, AREA	IDC	WASTE DESCRIPTION	CONSTITUENT IDENTIFIED	CAS	INL POTENTIAL HWN	GEN HWN	WIPP WSPF HWN	INFORMATION SOURCE	REF
			vinyl chloride	75-01-4		D043		AK/WG	86
			methylene chloride	75-09-2		F001		AK/WG	86
			methylene chloride	75-09-2		F002		AK/WG	86
			acetone	67-64-1		F003		AK/WG	86
			methanol	67-56-1		F003		AK/WG	86
			xylene	1330-20-7		F003		AK/WG	86
			nitrobenzene	98-95-3	F004	-		PK	86
			toluene	108-88-3		F005		AK/WG	86

**NOTE 1:** *One 55-gallon drum of IDC 411 (D36093) contains one inner package of IDC 420 waste. Therefore, it will contain the EPA HWNs for that IDC, (References 11 and 13).*

**NOTE 2:** *One box of IDC 490 waste (M00821) may contain filters generated in the plenums of the Building 374 evaporation operation. These filters would carry the EPA HWNs assigned to IDC 335. (See Ref. 11, p 3-332.)*

**NOTE 3:** *Containers of waste remaining in storage at the TSA that have excess liquids will retain the applicable characteristic codes as indicated.*

**NOTE 4:** *Information sources used in Table B-1:*

HWD – See facility-specific hazardous waste determination.

WG – information issued by original waste generator

PK – process knowledge information, generally gathered by the INL from original waste generators, but not formally endorsed by the waste generator

HSG – information from headspace gas sampling and analysis

SS – information from solid sampling and analysis

AK – acceptable knowledge information (see Reference 26) process or historical knowledge information confirmed by the waste generator or from additional research into generator documents

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Table B-2. Generator site and area acronyms used in Table B-1.

<b>Site</b>	<b>Area</b>	<b>Description</b>
AE	AE	Argonne National Laboratory-East
BC	BC	Battelle Columbus Laboratory
BL	BL	Bettis Atomic Power Laboratory
BW	BW	Babcock and Wilcox
BX	BX	Bendix-Grand Junction Operation Office (M&O Contractor)
ID	AW	INL Materials and Fuels Complex (formerly called ANL-West)
ID	BN	INL Advanced Mixed Waste Treatment Facility (formerly called BNFL)
ID	IA	INL Auxiliary Reactor Area
ID	IC	INL Idaho Nuclear Technology and Engineering Center (formerly called Chemical Processing Plant)
ID	IF	INL Central Facilities Area
ID	IN	INL Naval Reactor Facility
ID	IP	INL Power Burst Facility
ID	IR	INL Reactor Technology Complex (formerly called Test Reactor Area)
ID	IT	INL Test Area North
ID	IW	INL Radioactive Waste Management Complex
ID	SD	Sub Surface Disposal Area
JH	JH	J. C. Haynes, Ohio businessman who irradiated diamonds with Am-241
MD	MD	Mound Laboratory
MO	MO	Monsanto-Dayton Laboratory
MX	MX	Am-241 waste from a smoke detector manufacturing company in Mexico
RF	RF	Rocky Flats Plant
RL	RL	Richland, Washington (DOE-Hanford site)